PERIODIC REVIEW REPORT
REPORTING PERIOD: JANUARY 1, 2022 THROUGH JANUARY 1, 2025
HARMON RAILROAD YARD – WASTE WATER AREA
CROTON POINT ROAD
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO. 360010

This Periodic Review Report (PRR) was prepared in accordance with the provisions of the document *DER-10 Technical Guidance for Site Investigation and Remediation* (DER-10). This is the fifth PRR for Harmon Waste Water Area, NYSDEC Site No. 360010 (the Site). This document presents a summary of site characterization and remedial activities historically conducted at the Site, and the site management activities completed in the period between January 1, 2022 and January 1, 2025 (the reporting period) pursuant to the requirements outlined in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester County, New York, Site Management Plan OU I and OU II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). This report includes the following elements:

- Site background information;
- identification of the remedial goals established for the Site;
- a description of the Institutional Controls (ICs) and Engineering Controls (ECs) for the Site;
- a review of monitoring protocols and results;
- a description of site monitoring activities, site inspections and groundwater monitoring; an evaluation of the remedy performance, effectiveness and protectiveness;
- a discussion of the supplemental work completed during the reporting period [e.g., preparation and initiation of work described in an alternative work plan that describes activities proposed to evaluate non-aqueous phase liquid (NAPL) at, and in the vicinity of, Harmon Yard OU-II L4 area, in response to a letter from the New York State Department of Environmental Conservation (NYSDEC) dated May 7, 2021 regarding the status of on-going remedial activities];
- a discussion of groundwater sampling completed in the report period, including groundwater sampling completed beyond that specified in the SMP; and
- conclusions and recommendations based on the work completed to date.

I. Executive Summary

A. Site Conditions, Contamination and Remedial History

- The Site is located, at the Metro-North Railroad (MNR) Harmon Railroad Yard facility in the Village of Croton-on-Hudson, Town of Cortlandt, Westchester County, New York it consists of a former wastewater treatment equalization lagoon, and areas surrounding the lagoon (refer to the Project Locus Map included as Figure 1).

- In 1980, elevated concentrations of Polychlorinated Biphenyls (PCBs) were detected in the effluent discharge from the wastewater treatment plant at the MNR Harmon Railroad facility, and this effluent was conveyed to the wastewater equalization lagoon. As a result, the New York State Department of Environmental Conservation (NYSDEC) first placed the Site on the state registry of Inactive Hazardous Waste Disposal Sites (IHWDS) in 1985, and it was classified as a Class 2 IHWDS. The Class 2 IHWDS designation indicated that the Site was considered by the NYSDEC to "represent a significant threat to public health and/or the environment and that action is required". [Note: Subsequent to the various remedial actions described herein, the NYSDEC issued a letter on January 14, 2013 stating, "The site is properly remediated and requires site management; therefore, it qualifies for Class 4 status on the Registry of Inactive Hazardous Waste disposal sites."]

- During the evaluation and remediation of the wastewater lagoon, NAPL that primarily consists of fuel and lubricating oil, sometimes impacted with PCBs and other chemicals, was also found on the groundwater in proximity of the lagoon.

- The former wastewater treatment lagoon is identified as Operable Unit OU I and the NAPL areas surrounding the lagoon are identified as Operable Unit OU II. A Site Location Map that shows the location of OU I and OU II in relation to the MNR Harmon Yard, and adjacent properties/features is presented as Figure 2.

- MNR entered into Order on Consent #WP-163-85, Site No. 360010 (executed on September 8, 1988) and Stipulation of Discontinuance, Index Number 383-89 (recorded by the Albany County Clerk's Office on August 10, 1994), with the NYSDEC to remediate OU I and OU II.

- OU I was remediated under a Record of Decision (ROD) with the NYSDEC dated September 1992. The NYSDEC issued a separate ROD for OU II on March 16, 1998 to remediate four areas of NAPL that were encountered in locations surrounding OU I. The OU I remedy, which included the removal and offsite disposal of sludge and some underlying soil from the bottom of the lagoon, and the subsequent capping of the lagoon was completed in 1996. A remedy for the removal of NAPL from OU II was constructed in 2000 and 2001, and operation of this remedy commenced in 2002, and although alterations to the originally installed system have occurred, NAPL removal

within OU II continued during the reporting period until November 2024, when NAPL removal activities were suspended to prepare for NAPL transmissivity testing (refer to Section II).

- Day Engineering, P. C. (DAY) prepared a SMP for OU I and OU II on behalf of MNR, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented at the Site beginning on March 1, 2012.

- A Declaration of Covenants and Restrictions (DCR) dated June 12, 2012 was prepared for the Site and filed with the Westchester County Clerk's office in August 2012 (Control No. 201207190024800l002F). The purpose of the DCR is to notify future owners/operators of the Site of residual contamination, limit the use of the Site, and assure that the requirements of the SMP are implemented. A copy of the executed DCR and a property survey map are included in Attachment A.

- Ownership of the Site changed in 2020. Copies of Relevant documentation pertaining to the change of ownership was included in the previous PRR (i.e., the reporting period January 1, 2019 through January 1, 2022.)

B. Effectiveness of the Remedial Program

1. During the reporting period, the effectiveness of the remedial program for the Site was evaluated by the routine monitoring of the OU I cover system with repairs and cleaning as necessary; the assessment of the thickness of NAPL that collects in wells installed within OU I and OU II, and the removal/disposal of this NAPL; and the monitoring of groundwater quality and flow patterns.

2. The work completed to date shows that the remedial program has the ability to achieve the remedial objectives for the Site.

C. Compliance

1. Although no areas of non-compliance with the SMP were identified during the reporting period, additional studies and remedial actions were implemented as described herein.

2. The routine and additional remedial actions completed during the reporting period are described in the Site Management Plan status reports. Copies of the status reports prepared during the reporting period are included in Attachment C.

D. Recommendations

1. The SMP will be updated with current ownership information.

2. No change to the frequency for submittal of the PRR submittals is recommended at this time (i.e., as outlined in the SMP, a PRR will be prepared and submitted every three years subsequent to this report with the next PRR to cover the reporting period between January 1, 2025 and January 1, 2028].

3. Since residual contamination remains at the Site, it is recommended that site management requirements be continued.

4. Should the findings of the supplemental studies described in the LNAPL Evaluation Work Plan (refer to Section II.B) warrant additional remediation, this remediation may be initiated during the next reporting period.

5. The SMP will be updated with the revised Monitoring Schedule provided in Appendix F.

II. Site Overview

A. Site Location, Site Features and Nature and Extent of Contamination

The Site is identified as Section 78.20, Block 2 and Lot 2 on the Westchester County Tax Map. OU I (the former wastewater lagoon) comprises an area measuring 2.251 acres and OU II consists of four areas of NAPL (i.e., identified as NAPL areas L1, L2, L3, and L4) located around the remediated (former) wastewater lagoon (i.e., OU I). OU II includes an area measuring 5.087 acres (inclusive of OU I). A Property Survey Map of the Site is included in Attachment A of this document. OU I and OU II are located in the northwest portion of the Harmon Railroad Yard and they are bound to the south by the Westchester County Railroad One Landfill, a closed and capped solid waste landfill, to the west by Half Moon Bay Drive (i.e., an access road to the Half Moon Bay residential development) followed by the Hudson River, to the north by Half Moon Bay residential development and to the east by the remainder of the Harmon Railroad Yard**.**

Remedial Investigations (RI) were performed to characterize the nature and extent of contamination at the Site. The results of these studies are described in detail in the following reports:

- *Remedial Investigation Report, Harmon Lagoon* – Fred C. Hart Associates, Inc., November 27, 1989

- *Remedial Investigation/Feasibility Study Report, Harmon Railroad Yard Wastewater Treatment Area, Operable Unit II, NYSDEC Site No.: 3-60-010* – ERM-Northeast, January 24, 1997

The Harmon Lagoon RI determined that prior to remediation OU I consisted of the following:

- A wastewater lagoon that was estimated to contain approximately 3,757 tons of sludge. It was estimated that 214 tons of this sludge contained concentrations of PCBs in excess of 500 parts per million (ppm); 1,153 tons of this sludge contained PCB concentrations ranging between 50 and 500 ppm; and the remaining sludge had PCB concentrations less than 50 ppm.

- An estimated 3,750 tons of surface soil [i.e., extending to a depth of 2 feet (ft.) below ground surface (bgs)] around the perimeter of the lagoon contained PCB concentrations in excess of the approved cleanup level of 0.5 ppm and 5,100 tons of subsurface soil contained PCB concentrations in excess of 10 ppm.

- Concentrations of several Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and Metals detected in the sludge exceeded calculated cleanup levels. The VOCs detected include toluene, xylene, and ethylbenzene. The SVOCs detected include fluorene, dibenzofuran, naphthalene, phenanthrene, and 1,2-dichlorobenzene. Metals detected include aluminum, barium, cadmium, copper, iron, lead, manganese, and zinc.

- In addition to PCBs, surface soils and near-surface soils (i.e., up to two ft. bgs) surrounding the lagoon contained concentrations of the SVOC 2-methylnapthalene and the metals cadmium, copper, and magnesium that exceed calculated cleanup levels.

- Quantifiable levels (0.25 ppm) of PCBs were detected in the outdoor sludge drying beds at the Site.

- NAPL was detected in three of nine monitoring wells installed in proximity of the lagoon. The NAPL, identified as diesel fuel, was measured up to two-feet thick in one of the monitoring wells, and the NAPL in one groundwater sampling location also contained a PCB concentration of 104 ppm.

The OU II RI determined that prior to remediation this area contained:

- NAPL, consisting of viscous, severely biodegraded diesel fuel containing varying concentrations of PCBs on the surface of the groundwater in four distinct locations surrounding OU I (i.e., identified as NAPL areas L1 through L4, refer to Figure 3). The depth to the top of the NAPL layer ranged from 5.5 ft. bgs in NAPL area L4 to 19 ft. bgs in NAPL area L1.

- NAPL area L1 is approximately 0.27 acres in size, it had a maximum NAPL thickness of 2.5 ft. and an estimated NAPL volume of 26,700 gallons. The maximum PCB concentration measured in NAPL area L1 is 7.2 ppm.

- NAPL area L2 is approximately 0.03 acres in size, it had a maximum NAPL thickness of 1.35 ft. and an estimated NAPL volume of 2,500 gallons. The maximum PCB concentration measured in NAPL area L2 is 19 ppm.

- NAPL area L3 is approximately 0.05 acres in size, it had a maximum NAPL thickness of 1.3 ft. and an estimated NAPL volume of 4,900 gallons. The maximum PCB concentration measured in NAPL area L3 is 3.6 ppm.

- NAPL area L4 is approximately 0.61 acres in size, it had a maximum NAPL thickness of 3.7 ft. and an estimated NAPL volume of 118,500 gallons. The maximum PCB concentration measured in NAPL area L4 is 119 ppm.

- Most VOC and SVOC concentrations detected in groundwater samples collected from 10 groundwater monitoring wells (8 shallow, 2 deep) evaluated during the RI were at levels below groundwater standards. Only the VOC chlorobenzene, which was detected in two samples at concentrations up to 62 parts per billion (ppb), exceeded the applicable groundwater standards. No PCBs or pesticides were detected in any of the groundwater samples tested. The metals arsenic, chromium, copper, and lead were detected in groundwater samples at concentrations above groundwater standards.

- Groundwater flow was reported to be primarily to the northwest across OU II.

B. Chronology

OU I was remediated in accordance with a NYSDEC approved Remedial Design/Remedial Action Work Plan, dated June 23, 1993 and a Proposed Remedial Approach, Former Lagoon Area, dated March 8, 1994. The remediation of OU II was conducted in accordance with the provisions outlined in a document titled *Engineer's Report Operable Unit II Remedial Design* dated February 17, 2000 prepared by ERM-Northeast and subsequent revisions based on pilot testing and additional evaluation. A chronology of Remedial Actions performed at the Site is presented below.

- The NYSDEC first placed the Site on the state registry of Inactive Hazardous Waste Disposal Sites in 1985 and designated the Site as a Class 2 site that represented a significant threat to public health and/or the environment that required remedial action.

- MNR entered into Order on Consent #WP-163-85, Site No. 360010 (executed on September 8, 1988) and Stipulation of Discontinuance, Index Number 383-

89 (recorded by the Albany County Clerk's Office on August 10, 1994), with the NYSDEC to remediate the Site.

- OU I was remediated under a ROD with the NYSDEC dated September 1992. The NYSDEC issued a separate ROD for OU II on March 16, 1998 to remediate four areas of NAPL that were encountered in locations surrounding OU I.

- The OU I remedy was completed in 1996. The OU II remedy was constructed in 2000 and 2001, and operation of this remedy commenced in 2002. Although alterations to the originally installed system have occurred, NAPL removal from OU II continued during the reporting period until November 2024, when NAPL removal activities were temporarily suspended to prepare for LNAPL transmissivity testing.

    - A SMP, dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016, was prepared for the Site. The SMP was approved by the NYSDEC and the site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented beginning on March 1, 2012, and continued throughout the current reporting period.

    - A Declaration of Covenants and Restrictions dated June 12, 2012 was prepared for the Site and filed with the Westchester County Clerk's office in August 2012 (Control No. 201207190024800l002F).

    - During the reporting period, various corrective actions were implemented at the Site including the continued removal of scrap metal from OU II areas around the asphalt cover and the repair of cracks observed in the asphalt cover of OU-I.

    The OU I remedy included the following components:

    - The decommissioning and demolition of the former wastewater treatment plant located east of the lagoon.
    - The installation of a permanent sheeting wall around the lagoon perimeter to a depth approximately three feet into the water table.
    - The removal and disposal of water and approximately 6,000 cubic yards of sludge from the lagoon.
    - The removal of approximately 5,000 cubic yards of soil located immediately beneath the lagoon.
    - The installation of a final cover system consisting of two impermeable layers of 40-mil high-density polyethylene (HDPE) covered with a geocomposite drainage net, clean backfill and an asphalt cover.
    - The installation of a system of manholes and pipes to direct storm water to a riprap-lined drainage channel located immediately north of the asphalt cover.

- The installation of four-air inlet and vapor extraction well clusters within the former lagoon footprint as a contingency measure.

During inspections of the OU I remedy conducted in 2003, differential settlement was noted within portions of the former lagoon resulting in an area of ponded water. In response to this finding, DAY designed and implemented the construction of an additional catch basin and piping system in 2004 and 2005 to allow this water to drain from the cap. These modifications did not disturb the original cap system, and they were effective in removing water that collected on the cap.

The initial OU II remedy included the following components:

- The placement of at least two feet of environmentally clean soil or asphalt over the OU II Area.
- Installation and operation of a Vacuum Enhanced NAPL Recovery System consisting of:
  - 28 vapor extraction wells
  - 50 air inlet wells; and
  - Three vapor extraction treatment units. [Note: NAPL Areas L1 and L2 utilized a combined treatment unit and the other two areas utilized a dedicated vapor extraction treatment unit.]

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4) when it was determined the system had stimulated biodegradation of contaminants, removed NAPL-related vapors (i.e., volatilization), and removed NAPL to the extent practicable. Thereafter, it was determined that alternative methods were appropriate to remove additional NAPL. Following the decommissioning of the Vacuum Enhanced NAPL Recovery System, NAPL was routinely removed from the select wells utilizing a combination of product-only removal equipment, bailers, pumps, and passive NAPL recovery devices. The use of passive NAPL recovery devices was discontinued in 2016. To prevent potential NAPL migration from the OUII NAPL Area L1 to the Half Moon Bay property (i.e., a residential development to the northwest of the Site), a sheeting wall was installed along the western boundary of OUII Area L1 in 2002.

The cleanup goals for the Site are to remove NAPL to the extent practicable, prevent off-site migration of NAPL, prevent ingestion/direct contact with contaminated subsurface soils, prevent exposure to onsite groundwater, prevent the migration of contaminated groundwater off-site, and prevent exposure to contaminants volatizing from contaminated soil. Generally, remedial processes are considered complete when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document.

The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

MNR received a letter titled "2020 Site Management Plan Status Reports" from the NYSDEC, dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. In response to this letter, additional sampling and testing of select monitoring wells was completed and a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021(CMWP) was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. A chronology of correspondence between MNR and NYSDEC during the current reporting period regarding the above referenced CMWP, and alternative scope of work proposed to evaluate NAPL at, and in the vicinity of, Harmon Yard OU-II L4 area, is presented below:

- March 8, 2022 – MNR received comments from the NYSDEC on the Corrective Measures Work Plan (included in Attachment B).
- April 19, 2022 – MNR responded to NYSDEC comments on Corrective Measures Work Plan (included in Attachment B).
- July 29, 2022 – MNR received comments from the NYSDEC regarding the April 19, 2022 response (included in Attachment B).
- September 1, 2022 – NYSDEC representatives visited the Site accompanied by representatives of MNR.
- September 7, 2022 – Following discussions between MNR, NYSDEC, and DAY representatives, MNR sent a document to the NYSDEC titled *Alternative Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010*, prepared by DAY and describing an alternative approach to assess the free product impact in the OUII area (included in Attachment B).
- October 6, 2022 – MNR received an email transmittal from the NYSDEC, requesting MNR to obtain groundwater sampling data from Westchester County pertaining to the Former Croton Sanitary Landfill (FDCPSL), and provide the data to NYSDEC pursuant to addressing concerns regarding potential offsite migration of contamination (included in Attachment B).
- December 19, 2022 – MNR received a letter from NYSDEC conditionally accepting the Periodic Review Report (PRR) and Institutional Control/Engineering Control Certification (IC/EC) for the January 1, 2019 through January 1, 2022 monitoring period (included in Attachment B).
- January 5, 2023 – MNR received Information from Westchester County pertaining to the Former Croton Sanitary Landfill. Copies of the documents received were provided by MNR to NYSDEC in the SMP status Report for

the period January 1, 2023 through March 31, 2023 (included in the Site Management Plan Status Report for the reporting period: January 1, 2023 through March 31, 2023 in Attachment C).

- May 2, 2024 – A conference call was conducted with representatives from the NYSDEC, TRC Engineering (TRC), MNR, and DAY to discuss the alternative approach to assess the free product impact in the OUII area that was submitted to the NYSDEC on August 31, 2022.
- May 31, 2024 – MNR contacted the adjacent property owners (i.e., Village of Harmon-on-Croton and Westchester County), provided a description of the proposed work to be completed on these adjacent properties, and requested access to complete this work. The Village of Harmon-on-Croton requested that MNR complete an access agreement. Westchester County requested a directive from the NYSDEC.
- June 12, 2024 – MNR sent an access agreement to the Village of Harmon-on-Croton.
- June 21, 2024 – MNR sent an email transmittal to the NYSDEC which included:
    - a work plan, titled *LNAPL Evaluation Work Plan Operational Unit II – L4 NAPL Area Harmon Railroad Yard Westchester County, New York NYSDEC Site No. 3-60-010*, dated June 2024 and prepared by DAY (LNAPL Evaluation Work Plan), describing the activities proposed to evaluate NAPL at, and in the vicinity of, Harmon Yard OU-II L4 area (included in Attachment B); and
    - document titled *LNAPL Evaluation and Remediation Operational Unit II – L1 NAPL Area Harmon Railroad Yard Westchester County, New York NYSDEC Site No. 3-60-010* describing historic conditions within the OU-II NAPL L1area and impacts on the adjacent Half Moon Bay property (included in Attachment B).
- September 5, 2024 – NYSDEC sent a directive to Westchester County in support of the activities proposed to evaluate LNAPL at select locations on the Former Croton Sanitary Landfill, Railroad I Unit, located in the vicinity Harmon Yard OU-II L4 area.
- September 13, 2024 – Westchester County representatives responded to the NYSDEC Directive in an email, indicating that some of the proposed test boring locations would be within feet of the landfill liner, or possibly on top of the liner, and proposed adjusting the locations of these test borings to the north to reduce the possibility of damage to the landfill's liner system.
- October 16, 2024 – MNR sent a figure depicting revised locations for proposed test borings to NYSDEC, Village of Harmon-on-Croton and Westchester County. The Village of Harmon-on-Croton responded, indicating that the revised locations are within a Westchester County easement area.

- October 17, 2024 – MNR sent an email request to Westchester County, asking the County for its acceptance of the revised test locations, and for its requirements for access to the proposed test boring locations.
- November 26, 2024 – NYSDEC representative (TRC) sent email requesting MNR to review Former Croton Sanitary Landfill, Railroad I Unit as-built plans to determine if the plans may provide information on "how the location and depth of the liner may influence groundwater and LNAPL transport", and to update the conceptual site model for NYSDEC Site No. 3-60-010, as appropriate.
- December 17, 2024 – MNR sent a response to NYSDEC, indicating that a document request will be made to Westchester County for the Former Croton Sanitary Landfill, Railroad I Unit as-built plans, and further, to resend the request made to Westchester County on October 17, 2024.
- December 20, 2024 – MNR sent an email request to Westchester County for the Former Croton Sanitary Landfill, Railroad I Unit as-built plans and re-sent the request made to Westchester County on October 17, 2024. Westchester County responded, indicating that MNR should prepare an access agreement for the proposed test borings, and that the as-built plans from the 1970's are not scanned, but that MNR could review the plans in person. (Note: a DAY representative photographed the as-built plans on January 10, 2025).

Note: On November 11-12 2024, DAY representatives developed select monitoring wells in the OUII NAPL L4 Area in preparation for Transmissivity Testing work described in Section 3.3 of the LNAPL Evaluation Work Plan (refer to Attachment B.) Handling/testing of the development fluids is further described in the Site Management Plan Status Report for the reporting period: October 1, 2024 through December 31, 2024 in Attachment C. The remaining tasks described in the LNAPL Evaluation Work Plan are currently scheduled to commence beginning in January 2025.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

The OU I remedy eliminated the source of the original contamination with the decommissioning and demolition of the wastewater treatment plant, the excavation/disposal of contaminated sludge and soil, and the closure of the former equalization lagoon with a permanent cap system. The effectiveness of this remedy is evaluated by the completion of bi-annual inspections of the cover system, quarterly (or more frequent) NAPL thickness monitoring, and annual groundwater sampling/testing.

During the reporting period, bi-annual inspections were completed on May 19, 2022, October 27, 2022, April 21, 2023, October 13, 2023, April 19, 2024 and October 3, 2024. Copies of these inspection reports, which include copies of photographs taken at the time of the inspections, are included in the quarterly SMP status reports provided in Attachment C. The results of the inspections are also discussed in Section V.

The OU II remedy included the placement at least two feet of environmentally clean soil and/or asphalt pavement at the ground surface to prevent direct contact with waste materials; and initially the in-situ treatment to enhance biodegradation, volatilize vapors associated with NAPL, and removal of NAPL from four areas surrounding the closed lagoon. The effectiveness of the biodegradation and volatilization was evaluated by measurement of carbon dioxide and oxygen levels and by measurement with a PID. These measurements indicated that within the first year of operation the Vacuum Enhanced NAPL Recovery System resulted in low carbon dioxide levels and elevated oxygen levels coupled with low PID readings. This suggested that constituents amenable to biodegradation were removed to the extent possible, and that subsequent remedial actions within OU II should focus on NAPL removal. As such, the effectiveness of the NAPL removal effort is currently monitored by the completion of the bi-annual inspections discussed above, the routine measurement of NAPL thicknesses within monitoring wells, and the sampling/testing of groundwater samples. The NAPL removal efforts conducted since 2002 have reduced, or eliminated, NAPL within wells in each of the NAPL areas, and resulted in a decrease in the concentrations of PCBs reported in the recovered NAPL. Specifically, since 2002 PCB concentrations greater than 50 ppm, have not been detected in samples of the recovered NAPL. The testing of groundwater samples collected as part of the long-term monitoring program for the Site documents that the contaminants of concern identified for the Site (i.e., STARS/CP-51 List volatile organic compounds plus chlorobenzene, STARS/CP-51 List semi-volatile organic compounds plus 2-methylnaphthalene, PCBs, and the metals arsenic, chromium, copper and lead) have not adversely impacted groundwater quality.

The extent of off-site NAPL migration was evaluated during the reporting period via the evaluation of off-site monitoring wells OU II-A through OU II-F. The evaluation of possible NAPL migration around the barrier sheet pile wall installed along the western border of NAPL Area L-1 was evaluated via the monitoring of wells SP-North and WB-9. Samples were also collected annually during the reporting period from monitoring wells VE1-4, VE2-1, VE3-1, and VE4-11 and tested for emerging contaminants (i.e., PFAS and 1,4-dioxane).

The effectiveness of the remedies implemented at OU I and OU II are documented in the following.

- During the reporting period, samples of NAPL removed from the wells within OU II and from select wells in the OU I area were collected and tested for PCBs. A summary of the PCB concentrations measured in the samples tested to date is presented on Table 1. Copies of analytical laboratory reports for samples tested for PCBs during this reporting period are included in the SMP status reports included in Attachment C.

- NAPL thickness measurements made during the reporting period are included on the logs included in Attachment D.

- The amount of NAPL removed from wells within OU I and OU II during the reporting period is summarized in Table 2.

- Historic NAPL thickness measurements collected in representative wells, and calculated trend lines are shown on Figure 4 through Figure 7c.

- Average thicknesses and trendlines of free product in off-site wells by report period are shown on Figure 8.

- A bar graph depicting NAPL recovered by quarterly monitoring periods is provided as Figure 9.

- Disposal documentation for the NAPL removed from OU I and OU II in the reporting period is included in SMP status reports provided in Attachment C.

- The results of the groundwater monitoring completed at the Site are discussed in Section V of this PRR.

IV. IC/EC Compliance Report

A. IC/EC Compliance Report

1. A description of each control, its objective, and how performance of the control is evaluated is provided below:

   - Site Management Plan: The objective of the SMP is to manage remaining contamination present at the Site that is above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, a Site Monitoring Plan and an Operation and Maintenance Plan. The performance of the controls outlined in the above plans is evaluated through monitoring and periodic certification. Controls on the Site include:

     - Construction of a cover system over the former equalization lagoon to eliminate direct contact and preclude discharge of remaining contamination into the groundwater;

     - Installation of fencing surrounding the Site and restricting access to the Site to authorized personnel, which limits access to possible contamination and prevents vandalism/damage to the completed remedies;

     - Placement of a minimum of 2 feet of clean soil or asphalt pavement throughout the Site to provide a barrier to potentially contaminated subsurface materials;

- Restricting the use of groundwater underlying the Site without treatment rendering it safe for its intended use to prevent the ingestion of contamination;

- Prohibiting vegetable gardens and farming on the Site to prevent ingestion of contaminants present in the subsurface;

- Completing regular monitoring/testing to document the continued removal of NAPL and assure groundwater quality is not impacted by NAPL or associated contaminants; and

- Implementing the specific requirements outlined in the SMP including the provisions of the IC/EC Plan (including the Excavation Work Plan, Soil Vapor Intrusion Evaluation, and Contingency Plan), Site Monitoring Plan, and Operation and Maintenance Plan to assure the provisions described in these documents are followed.

- Declaration of Covenants and Restrictions (DCR): This document was filed to provide an enforceable legal instrument to ensure compliance with the SMP including the ICs and ECs placed on the Site.

2. Status:

   Each control is in place, functioning as intended, and effective in achieving its intended purpose.

3. Corrective Measures:

   Specific corrective actions were not completed during the reporting period, but actions were taken to enhance the removal of NAPL. These include, the monitoring of wells within OU I (and the removal of NAPL from the OU I wells, if necessary).

4. Conclusions and Recommendations for Changes:

   No changes to the controls being implemented at the Site are recommended at this time.

B. IC/EC Certification

Executed copies of the certification documents are included in Attachment E.

V. Monitoring Plan Compliance Report

A. Components

- Site-Wide Inspections: Bi-annual inspections are completed to observe and document the condition of the cover system installed at OU I and OU II, the condition of monitoring wells, the condition of drainage channels, compliance with ICs, the effectiveness of ECs, and to assure that adequate records are maintained. Site-wide emergency inspections are also performed after all severe weather events that have the potential to affect ECs and monitoring wells.

- Groundwater Monitoring Plan: Groundwater monitoring was completed as outlined in the monitoring schedule presented in the previous PRR. An updated groundwater monitoring plan is included in Attachment F. The purpose of this monitoring is to measure NAPL thicknesses and the depth to groundwater and, depending on the amount encountered, to remove NAPL. In addition, groundwater samples are collected annually for analytical laboratory testing from OU II Area L-1 monitoring wells VE1-2, and VE1-4; OU II Area L-2 monitoring well VE2-1; OU II Area L-3 monitoring well VE3-1; OU II Area L-4 monitoring wells DAY-1, FA4-9, FA4-16, VE4-7, VE4-9, VE4-11, and PGW-2; and off-site monitoring wells OUII-A, through OUII-F. This plan also covers monitoring well repairs, replacement, and decommissioning.

B. Summary of the Monitoring Completed

- Site-Wide Inspections: During the reporting period, routine bi-annual inspections were completed on May 19, 2022, October 27, 2022, April 21, 2023, October 13, 2023, April 19, 2024, and October 3, 2024. In addition, an emergency inspection was completed on July 10, 2023 (i.e., following a heavy rain event that occurred on July 9, 2023). Copies of these inspection reports are included in the SMP status reports included in Attachment C. (Note: a copy of the May 19, 2022 inspection report was not included in a status report, but has been included in Attachment C.) The need for corrective actions (i.e. resulting from heavy rainfall) was not identified by the emergency inspection completed on July 9, 2023. As shown in the routine inspection reports, only relatively minor corrective actions were deemed necessary (e.g., continued removal of scrap metal from OU-II areas around the asphalt cover, replacement of a well cap on OUI piezometer P7, sealant of cracks in the asphalt cover, repair of the OUII L1 area monitoring well AI1-11 stickup well casing, etc.), and the ICs and ECs were found to be functioning properly. In addition to photographs included with select site-wide inspections. a photolog including representative photographs of site conditions and the NAPL recovery system is included in Attachment I.

- Groundwater Monitoring Plan: The results of the groundwater monitoring conducted within the reporting period are summarized in the following:

  - Copies of the NAPL thickness, groundwater level, and NAPL removal logs prepared for events conducted during the reporting period are included in Attachment D.

  - Table 2 summarizes the amount of NAPL removed from wells at the Site during the reporting period.

  - Historic groundwater elevations measured in select monitoring wells at the Site are included in Table 3.

  - Historic NAPL thicknesses measured in select monitoring/NAPL collection wells, and calculated trend lines showing a general decrease in the thickness of the NAPL, are included as Figure 4 through Figure 7c.

  - Figure 9 shows an increase in the NAPL recovered in 2022, followed by a general decrease in the amount of NAPL recovered annually.

  - Groundwater contour maps prepared based on groundwater elevation data collected at various times throughout the reporting period are included in the SMP status reports (Attachment C).

  - Copies of the analytical laboratory reports for groundwater samples collected from monitoring wells during the reporting period are included in SMP status reports presented in Attachment C.

  - The analytical laboratory results of groundwater samples collected to date are summarized on the following tables:

    - Table 4: Summary of Volatile Organic Compounds
    - Table 5: Summary of Semi-Volatile Organic Compounds
    - Table 6: Summary of Polychlorinated Biphenyls
    - Table 7: Summary of Tested Metals
    - Table 8: Summary of PFAS and 1,4-Dioxane

  - The analytical laboratory reports were submitted to Vali-Data of WNY, LLC (i.e., a third party data validator) to prepare data usability summary reports (DUSRs) for each sample round. The data presented in the above referenced tables was modified based on the findings of the DUSRs. A summary of quality assurance/quality control (QA/QC) samples and DUSR information is provided in Table 9 Copies of DUSR reports generated during this reporting period are presented in Attachment H. As shown on Table 9, EQuIS electronic data deliverables (EDDs), modified

per changes identified in the DUSRs, have been submitted to the NYSDEC at NYENVDATA@dec.ny.gov.

- Spider diagrams showing the analytical laboratory results of the samples collected during the reporting period are included in the SMP status reports presented in Attachment C.

- Table 10 shows the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date and Figure 8 shows the average free product thickness detected in the off-site monitoring wells by report period. Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment G. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs, with the possible exception of well OUII-D where free product levels are relatively consistent, the amount of free product detected appears to decrease when the groundwater elevation increases.

C. Comparison with Remedial Objectives

- Site-Wide Inspections: The results of the site-wide inspections completed indicate that remedial objectives were achieved during the reporting period. Specifically, the site-wide inspections revealed that the cover system is intact and functioning as designed to eliminate direct contact and prevent discharge of the remaining contamination into the groundwater. Further, fencing is in place and access to the Site is restricted to authorized personnel only, groundwater is not being ingested, vegetable gardens and farming are not conducted at the Site, and ICs and ECs are in place/functioning as intended.

- Groundwater Monitoring Plan: As shown on Figure 4 through Figure 7c, NAPL thicknesses have generally decreased historically in wells evaluated and the analytical laboratory results presented in Table 4 through Table 8 indicate that the concentrations detected are typically below applicable regulatory guidance values. Also, NAPL removal from the monitoring wells was ongoing during the reporting period, with the exception of November 2024 and December 2024 (i.e., subsequent to well development conducted in anticipation of transmissivity testing), as shown on Figure 9. As such, the remedial objective to remove NAPL to the extent practicable is being achieved. The emerging contaminant testing completed during the reporting period identified detectable concentrations of select emerging contaminants (e.g., particularly concentrations of perfluorooctanoic acid [PFOA] perfluorooctanesulfonic acid [PFOS] in samples from monitoring wells VE1-4 and VE2-1). The concentrations measured do not warrant remedial actions at this time. However, further monitoring should be completed during the subsequent reporting period to assess impact and the need for remediation.

- Off-Site NAPL Migration: As shown in the logs in Attachment D, hydrographs in Attachment G, Figure 8, and Table 10, NAPL was detected in off-site monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F during the reporting period. NAPL was not detected in off-site monitoring wells OUII-C and OUII-E. With the exception of monitoring well OUII-D, the thickness of NAPL observed appeared to vary with the static water level (i.e., increased amounts of NAPL were evident when the static water level decreased. The amount of NAPL observed in monitoring well OUII-D was relatively consistent independent of the static water level. During the reporting period, the thickness of NAPL observed in the off-site monitoring wells did not appear to be increasing. As described in the LNAPL Evaluation Work Plan, studies to assess the extent of NAPL in proximity of NAPL Area L-4 are planned for the next reporting period. Based on the findings of the studies completed, NAPL monitoring and removal frequency and methods will be evaluated.

D. Monitoring Deficiencies

There are no monitoring deficiencies at this time.

E. Conclusions and Recommendations for Changes

- Site-Wide Inspections: The site-wide inspections confirmed that the remedial systems/actions for the Site are functioning properly, and effective in achieving their intended objectives. No changes to the site-wide inspection process or changes to the remedial actions based upon the inspections completed are recommended at this time.

- Groundwater Monitoring Plan: Wells should be monitored per the revised Monitoring Schedule provided in Appendix F. Annual sampling should be conducted per the Monitoring Schedule provided in Appendix F.

VI. Operation & Maintenance (O&M) Plan Compliance Report

A. Components of the O & M Plan

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4), and it has been decommissioned. A Magnum Spill Buster™ was installed in NAPL collection wells RW-1, AI2-3, FA4-8, and FA4-17 in 2017 and a portable product only recovery device (i.e., Magnum Spill Buddy Pro™) was used to collect product in select wells that historically have been shown to contain NAPL. These systems are no longer functional and are not available for purchase or repair. NAPL is currently removed from monitoring wells using a variety of methods. A Geotech Product Recovery Canister (PRC) Passive Skimmer (i.e., a passive skimmer designed to recover product-only layers) was installed in well FA4-17 in the previous report period, and a belt skimmer was installed in well FA4-8 in May 2024. Both of these recovery systems were operational until November 12, 2024 (i.e., when shut down as

part of transmissivity testing completed at the Site). These systems are expected to be restarted in 2025 when transmissivity testing is complete. A peristaltic pump connected to a Heron Oil-Water interface probe is used to remove free product from other wells. Five additional Geotech PRC Passive Skimmers have been purchased and are expected to be installed in select wells during 2025.

Currently, the NAPL collected is placed in 55-gallon drums, which are stored within a waste accumulation area. When drums are full, they are sampled and tested for PCBs via USEPA Method 8082 and transported off-site for disposal. On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

B. Summary of O & M Completed During the Reporting Period

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4), and the operation of this system has been discussed elsewhere in this report. The current components of the O&M Plan (NAPL removal via product recovery devices, and bailers) started prior to the decommissioning of the Vacuum Enhanced NAPL Recovery System and it continued throughout the reporting period. During the reporting period, approximately 882 gallons of NAPL was removed from the Site.

C. Evaluation of the Remedial Systems

The methods currently used to remove NAPL from the Site are effective and they are functioning as designed/expected.

D. O&M Deficiencies

No deficiencies were identified in complying with the O&M plan during the reporting period.

E. Conclusions and Recommendations for Improvements

Overall, the O&M activities at the Site satisfactorily addressed their intended remedial function.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

The requirements identified in the SMP for the Site were met during the reporting period and no modifications are required to bring the plan into compliance.

B. Performance and Effectiveness of the Remedy

An evaluation of the components of the SMP during the reporting period indicated that: the IC/EC controls were protective of human health and the environment, the monitoring plan sufficiently monitored the performance of the remedies implemented, the O&M Plan adequately addressed the on-going removal of NAPL, and the remedial program is achieving the remedial goals identified for the Site.

C. Future PRR Submittals

1. It is recommended that the frequency of future PRRs remain as identified in the SMP (i.e., submitted every three years subsequent to this report, such that the next PRR covers the reporting period January 1, 2025 through January 1, 2028). In addition, it is recommended that SMP status reports continue to be submitted on a quarterly basis. If warranted, corrective action plans will be prepared and implemented to address additional remedial actions deemed necessary. The results of such remedial actions will be presented in the quarterly status report during the upcoming reporting period.

2. The findings of the work completed pursuant to the implementation of the LNAPL Evaluation Work Plan (including supplemental remediation, if deemed necessary) will be described in the next PRR.

3. The requirements for site closure have not been achieved. As such, it is recommended that site management continue.

PERIODIC REVIEW REPORT
REPORTING PERIOD JANUARY 1, 2022 THROUGH JANUARY 1, 2025
HARMON RAILROAD YARD – WASTE WATER AREA
CROTON POINT ROAD
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO. 360010

TABLES

Table 1 Waste Characterization Testing for PCBs: Recovered NAPL
Table 2 Summary of NAPL Removed During the Reporting Period
Table 3 Summary of Groundwater Elevation Measurements
Table 4 Summary of Volatile Organic Compounds: Groundwater Samples
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Table 8 Summary of PFAS and 1,4-Dioxane: Groundwater Samples
Table 9 QA/QC Samples and DUSR Information
Table 10 Off-Site Wells Static Water Levels and Range of Free Product Thickness

FIGURES

Figure 1 Project Locus
Figure 2 Site Location Map
Figure 3 Site Plan with NAPL Areas and Well Locations
Figure 4 NAPL Thickness Measurements: Area L1
Figure 5 NAPL Thickness Measurements: Area L2
Figure 6 NAPL Thickness Measurements: Area L3
Figure 7a NAPL Thickness Measurements: Area L4 (West)
Figure 7b NAPL Thickness Measurements: Area L4 (Central)
Figure 7c NAPL Thickness Measurements: Area L4 (East)
Figure 8 Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period
Figure 9 NAPL Recovered by SMP Status Report Period

ATTACHMENTS

Attachment A Declaration of Covenants and Restrictions with Property Survey Map
Attachment B Correspondence received from NYSDEC in Report Period
Attachment C Site Management Plan Status Reports
Attachment D NAPL Thickness Measurements and Static Water Level Logs
Attachment E Institutional and Engineering Control Certification Forms
Attachment F Monitoring Schedule
Attachment G Off-Site Monitoring Well Hydrographs
Attachment H Data Usability Summary Reports
Attachment I Photo Log

PERIODIC REVIEW REPORT
REPORTING PERIOD: JANUARY 1, 2022 THROUGH JANUARY 1, 2025
HARMON RAILROAD YARD – WASTE WATER AREA
CROTON POINT ROAD
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO. 360010

This Periodic Review Report (PRR) was prepared in accordance with the provisions of the document *DER-10 Technical Guidance for Site Investigation and Remediation* (DER-10). This is the fifth PRR for Harmon Waste Water Area, NYSDEC Site No. 360010 (the Site). This document presents a summary of site characterization and remedial activities historically conducted at the Site, and the site management activities completed in the period between January 1, 2022 and January 1, 2025 (the reporting period) pursuant to the requirements outlined in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester County, New York, Site Management Plan OU I and OU II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). This report includes the following elements:

- Site background information;
- identification of the remedial goals established for the Site;
- a description of the institutional controls (IC) and engineering controls (EC) for the Site;
- a review of monitoring protocols and results;
- a description of site monitoring activities, site inspections and groundwater monitoring; an evaluation of the remedy performance, effectiveness and protectiveness;
- a discussion of the supplemental work completed during the reporting period [e.g., preparation and initiation of work described in an alternative work plan that describes activities proposed to evaluate non-aqueous phase liquid (NAPL) at, and in the vicinity of, Harmon Yard OU-II L4 area, in response to a letter from the New York State Department of Environmental Conservation (NYSDEC) dated May 7, 2021 regarding the status of on-going remedial activities];
- a discussion of groundwater sampling completed in the report period, including groundwater sampling completed beyond that specified in the SMP; and
- conclusions and recommendations based on the work completed to date.

I. Executive Summary

A. Site Conditions, Contamination and Remedial History

- The Site is located, at the Metro-North Railroad (MNR) Harmon Railroad Yard facility in the Village of Croton-on-Hudson, Town of Cortlandt, Westchester County, New York it consists of a former wastewater treatment equalization lagoon, and areas surrounding the lagoon (refer to the Project Locus Map included as Figure 1).

- In 1980, elevated concentrations of Polychlorinated Biphenyls (PCBs) were detected in the effluent discharge from the wastewater treatment plant at the MNR Harmon Railroad facility, and this effluent was conveyed to the wastewater equalization lagoon. As a result, the New York State Department of Environmental Conservation (NYSDEC) first placed the Site on the state registry of Inactive Hazardous Waste Disposal Sites (IHWDS) in 1985, and it was classified as a Class 2 IHWDS. The Class 2 IHWDS designation indicated that the Site was considered by the NYSDEC to "represent a significant threat to public health and/or the environment and that action is required". [Note: Subsequent to the various remedial actions described herein, the NYSDEC issued a letter on January 14, 2013 stating, "The site is properly remediated and requires site management; therefore, it qualifies for Class 4 status on the Registry of Inactive Hazardous Waste disposal sites."]

- During the evaluation and remediation of the wastewater lagoon, NAPL that primarily consists of fuel and lubricating oil, sometimes impacted with PCBs and other chemicals, was also found on the groundwater in proximity of the lagoon.

- The former wastewater treatment lagoon is identified as Operable Unit OU I and the NAPL areas surrounding the lagoon are identified as Operable Unit OU II. A Site Location Map that shows the location of OU I and OU II in relation to the MNR Harmon Yard, and adjacent properties/features is presented as Figure 2.

- MNR entered into Order on Consent #WP-163-85, Site No. 360010 (executed on September 8, 1988) and Stipulation of Discontinuance, Index Number 383-89 (recorded by the Albany County Clerk's Office on August 10, 1994), with the NYSDEC to remediate OU I and OU II.

- OU I was remediated under a Record of Decision (ROD) with the NYSDEC dated September 1992. The NYSDEC issued a separate ROD for OU II on March 16, 1998 to remediate four areas of NAPL that were encountered in locations surrounding OU I. The OU I remedy, which included the removal and offsite disposal of sludge and some underlying soil from the bottom of the lagoon, and the subsequent capping of the lagoon was completed in 1996. A remedy for the removal of NAPL from OU II was constructed in 2000 and 2001, and operation of this remedy commenced in 2002, and although alterations to the originally installed system have occurred, NAPL removal within OU II continued during the reporting period until November 2024,

when NAPL removal activities were suspended to prepare for NAPL transmissivity testing (refer to Section II).

- Day Engineering, P. C. (DAY) prepared a SMP for OU I and OU II on behalf of MNR, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented at the Site beginning on March 1, 2012.

- A Declaration of Covenants and Restrictions (DCR) dated June 12, 2012 was prepared for the Site and filed with the Westchester County Clerk's office in August 2012 (Control No. 201207190024800l002F). The purpose of the DCR is to notify future owners/operators of the Site of residual contamination, limit the use of the Site, and assure that the requirements of the SMP are implemented. A copy of the executed DCR and a property survey map are included in Attachment A.

- Ownership of the Site changed in 2020. Copies of Relevant documentation pertaining to the change of ownership was included in the previous PRR (i.e., the reporting period January 1, 2019 through January 1, 2022.)

B. Effectiveness of the Remedial Program

1. During the reporting period, the effectiveness of the remedial program for the Site was evaluated by the routine monitoring of the OU I cover system with repairs and cleaning as necessary; the assessment of the thickness of NAPL that collects in wells installed within OU I and OU II, and the removal/disposal of this NAPL; and the monitoring of groundwater quality and flow patterns.

2. The work completed to date shows that the remedial program has the ability to achieve the remedial objectives for the Site.

C. Compliance

1. Although no areas of non-compliance with the SMP were identified during the reporting period, additional studies and remedial actions were implemented as described herein.

2. The routine and additional remedial actions completed during the reporting period are described in the Site Management Plan status reports. Copies of the status reports prepared during the reporting period are included in Attachment C.

D. Recommendations

1. The SMP will be updated with current ownership information.

2. No change to the frequency for submittal of the PRR submittals is recommended at this time (i.e., as outlined in the SMP, a PRR will be prepared and submitted every three years subsequent to this report with the next PRR to cover the reporting period between January 1, 2025 and January 1, 2028].

3. Since residual contamination remains at the Site, it is recommended that site management requirements be continued.

4. Should the findings of the supplemental studies described in the LNAPL Evaluation Work Plan (refer to Section II.B) warrant additional remediation, this remediation may be initiated during the next reporting period.

5. The SMP will be updated with the revised Monitoring Schedule provided in Appendix F.

II. Site Overview

A. Site Location, Site Features and Nature and Extent of Contamination

The Site is identified as Section 78.20, Block 2 and Lot 2 on the Westchester County Tax Map. OU I (the former wastewater lagoon) comprises an area measuring 2.251 acres and OU II consists of four areas of NAPL (i.e., identified as NAPL areas L1, L2, L3, and L4) located around the remediated (former) wastewater lagoon (i.e., OU I). OU II includes an area measuring 5.087 acres (inclusive of OU I). A Property Survey Map of the Site is included in Attachment A of this document. OU I and OU II are located in the northwest portion of the Harmon Railroad Yard and they are bound to the south by the Westchester County Railroad One Landfill, a closed and capped solid waste landfill, to the west by Half Moon Bay Drive (i.e., an access road to the Half Moon Bay residential development) followed by the Hudson River, to the north by Half Moon Bay residential development and to the east by the remainder of the Harmon Railroad Yard**.**

Remedial Investigations (RI) were performed to characterize the nature and extent of contamination at the Site. The results of these studies are described in detail in the following reports:

- *Remedial Investigation Report, Harmon Lagoon* – Fred C. Hart Associates, Inc., November 27, 1989

- *Remedial Investigation/Feasibility Study Report, Harmon Railroad Yard Wastewater Treatment Area, Operable Unit II, NYSDEC Site No.: 3-60-010* – ERM-Northeast, January 24, 1997

The Harmon Lagoon RI determined that prior to remediation OU I consisted of the following:

- A wastewater lagoon that was estimated to contain approximately 3,757 tons of sludge. It was estimated that 214 tons of this sludge contained concentrations of PCBs in excess of 500 parts per million (ppm); 1,153 tons of this sludge contained PCB concentrations ranging between 50 and 500 ppm; and the remaining sludge had PCB concentrations less than 50 ppm.

- An estimated 3,750 tons of surface soil [i.e., extending to a depth of 2 feet (ft.) below ground surface (bgs)] around the perimeter of the lagoon contained PCB concentrations in excess of the approved cleanup level of 0.5 ppm and 5,100 tons of subsurface soil contained PCB concentrations in excess of 10 ppm.

- Concentrations of several Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and Metals detected in the sludge exceeded calculated cleanup levels. The VOCs detected include toluene, xylene, and ethylbenzene. The SVOCs detected include fluorene, dibenzofuran, naphthalene, phenanthrene, and 1,2-dichlorobenzene. Metals detected include aluminum, barium, cadmium, copper, iron, lead, manganese, and zinc.

- In addition to PCBs, surface soils and near-surface soils (i.e., up to two ft. bgs) surrounding the lagoon contained concentrations of the SVOC 2-methylnapthalene and the metals cadmium, copper, and magnesium that exceed calculated cleanup levels.

- Quantifiable levels (0.25 ppm) of PCBs were detected in the outdoor sludge drying beds at the Site.

- NAPL was detected in three of nine monitoring wells installed in proximity of the lagoon. The NAPL, identified as diesel fuel, was measured up to two-feet thick in one of the monitoring wells, and the NAPL in one groundwater sampling location also contained a PCB concentration of 104 ppm.

The OU II RI determined that prior to remediation this area contained:

- NAPL, consisting of viscous, severely biodegraded diesel fuel containing varying concentrations of PCBs on the surface of the groundwater in four distinct locations surrounding OU I (i.e., identified as NAPL areas L1 through L4, refer to Figure 3). The depth to the top of the NAPL layer ranged from 5.5 ft. bgs in NAPL area L4 to 19 ft. bgs in NAPL area L1.

- NAPL area L1 is approximately 0.27 acres in size, it had a maximum NAPL thickness of 2.5 ft. and an estimated NAPL volume of 26,700 gallons. The maximum PCB concentration measured in NAPL area L1 is 7.2 ppm.

- NAPL area L2 is approximately 0.03 acres in size, it had a maximum NAPL thickness of 1.35 ft. and an estimated NAPL volume of 2,500 gallons. The maximum PCB concentration measured in NAPL area L2 is 19 ppm.

- NAPL area L3 is approximately 0.05 acres in size, it had a maximum NAPL thickness of 1.3 ft. and an estimated NAPL volume of 4,900 gallons. The maximum PCB concentration measured in NAPL area L3 is 3.6 ppm.

- NAPL area L4 is approximately 0.61 acres in size, it had a maximum NAPL thickness of 3.7 ft. and an estimated NAPL volume of 118,500 gallons. The maximum PCB concentration measured in NAPL area L4 is 119 ppm.

- Most VOC and SVOC concentrations detected in groundwater samples collected from 10 groundwater monitoring wells (8 shallow, 2 deep) evaluated during the RI were at levels below groundwater standards. Only the VOC chlorobenzene, which was detected in two samples at concentrations up to 62 parts per billion (ppb), exceeded the applicable groundwater standards. No PCBs or pesticides were detected in any of the groundwater samples tested. The metals arsenic, chromium, copper, and lead were detected in groundwater samples at concentrations above groundwater standards.

- Groundwater flow was reported to be primarily to the northwest across OU II.

B. Chronology

OU I was remediated in accordance with a NYSDEC approved Remedial Design/Remedial Action Work Plan, dated June 23, 1993 and a Proposed Remedial Approach, Former Lagoon Area, dated March 8, 1994. The remediation of OU II was conducted in accordance with the provisions outlined in a document titled *Engineer's Report Operable Unit II Remedial Design* dated February 17, 2000 prepared by ERM-Northeast and subsequent revisions based on pilot testing and additional evaluation. A chronology of Remedial Actions performed at the Site is presented below.

- The NYSDEC first placed the Site on the state registry of Inactive Hazardous Waste Disposal Sites in 1985 and designated the Site as a Class 2 site that represented a significant threat to public health and/or the environment that required remedial action.

- MNR entered into Order on Consent #WP-163-85, Site No. 360010 (executed on September 8, 1988) and Stipulation of Discontinuance, Index Number 383-

89 (recorded by the Albany County Clerk's Office on August 10, 1994), with the NYSDEC to remediate the Site.

- OU I was remediated under a ROD with the NYSDEC dated September 1992. The NYSDEC issued a separate ROD for OU II on March 16, 1998 to remediate four areas of NAPL that were encountered in locations surrounding OU I.

- The OU I remedy was completed in 1996. The OU II remedy was constructed in 2000 and 2001, and operation of this remedy commenced in 2002. Although alterations to the originally installed system have occurred, NAPL removal from OU II continued during the reporting period until November 2024, when NAPL removal activities were temporarily suspended to prepare for LNAPL transmissivity testing.

    - A SMP, dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016, was prepared for the Site. The SMP was approved by the NYSDEC and the site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented beginning on March 1, 2012, and continued throughout the current reporting period.

    - A Declaration of Covenants and Restrictions dated June 12, 2012 was prepared for the Site and filed with the Westchester County Clerk's office in August 2012 (Control No. 201207190024800l002F).

    - During the reporting period, various corrective actions were implemented at the Site including the continued removal of scrap metal from OU II areas around the asphalt cover and the repair of cracks observed in the asphalt cover of OU-I.

    The OU I remedy included the following components:

    - The decommissioning and demolition of the former wastewater treatment plant located east of the lagoon.
    - The installation of a permanent sheeting wall around the lagoon perimeter to a depth approximately three feet into the water table.
    - The removal and disposal of water and approximately 6,000 cubic yards of sludge from the lagoon.
    - The removal of approximately 5,000 cubic yards of soil located immediately beneath the lagoon.
    - The installation of a final cover system consisting of two impermeable layers of 40-mil high-density polyethylene (HDPE) covered with a geocomposite drainage net, clean backfill and an asphalt cover.
    - The installation of a system of manholes and pipes to direct storm water to a riprap-lined drainage channel located immediately north of the asphalt cover.

- The installation of four-air inlet and vapor extraction well clusters within the former lagoon footprint as a contingency measure.

During inspections of the OU I remedy conducted in 2003, differential settlement was noted within portions of the former lagoon resulting in an area of ponded water. In response to this finding, DAY designed and implemented the construction of an additional catch basin and piping system in 2004 and 2005 to allow this water to drain from the cap. These modifications did not disturb the original cap system, and they were effective in removing water that collected on the cap.

The initial OU II remedy included the following components:

- The placement of at least two feet of environmentally clean soil or asphalt over the OU II Area.
- Installation and operation of a Vacuum Enhanced NAPL Recovery System consisting of:
  - 28 vapor extraction wells
  - 50 air inlet wells; and
  - Three vapor extraction treatment units. [Note: NAPL Areas L1 and L2 utilized a combined treatment unit and the other two areas utilized a dedicated vapor extraction treatment unit.]

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4) when it was determined the system had stimulated biodegradation of contaminants, removed NAPL-related vapors (i.e., volatilization), and removed NAPL to the extent practicable. Thereafter, it was determined that alternative methods were appropriate to remove additional NAPL. Following the decommissioning of the Vacuum Enhanced NAPL Recovery System, NAPL was routinely removed from the select wells utilizing a combination of product-only removal equipment, bailers, pumps, and passive NAPL recovery devices. The use of passive NAPL recovery devices was discontinued in 2016. To prevent potential NAPL migration from the OUII NAPL Area L1 to the Half Moon Bay property (i.e., a residential development to the northwest of the Site), a sheeting wall was installed along the western boundary of OUII Area L1 in 2002.

The cleanup goals for the Site are to remove NAPL to the extent practicable, prevent off-site migration of NAPL, prevent ingestion/direct contact with contaminated subsurface soils, prevent exposure to onsite groundwater, prevent the migration of contaminated groundwater off-site, and prevent exposure to contaminants volatizing from contaminated soil. Generally, remedial processes are considered complete when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document.

The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

MNR received a letter titled "2020 Site Management Plan Status Reports" from the NYSDEC, dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. In response to this letter, additional sampling and testing of select monitoring wells was completed and a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021(CMWP) was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. A chronology of correspondence between MNR and NYSDEC during the current reporting period regarding the above referenced CMWP, and alternative scope of work proposed to evaluate NAPL at, and in the vicinity of, Harmon Yard OU-II L4 area, is presented below:

- March 8, 2022 – MNR received comments from the NYSDEC on the Corrective Measures Work Plan (included in Attachment B).
- April 19, 2022 – MNR responded to NYSDEC comments on Corrective Measures Work Plan (included in Attachment B).
- July 29, 2022 – MNR received comments from the NYSDEC regarding the April 19, 2022 response (included in Attachment B).
- September 1, 2022 – NYSDEC representatives visited the Site accompanied by representatives of MNR.
- September 7, 2022 – Following discussions between MNR, NYSDEC, and DAY representatives, MNR sent a document to the NYSDEC titled *Alternative Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010*, prepared by DAY and describing an alternative approach to assess the free product impact in the OUII area (included in Attachment B).
- October 6, 2022 – MNR received an email transmittal from the NYSDEC, requesting MNR to obtain groundwater sampling data from Westchester County pertaining to the Former Croton Sanitary Landfill (FDCPSL), and provide the data to NYSDEC pursuant to addressing concerns regarding potential offsite migration of contamination (included in Attachment B).
- December 19, 2022 – MNR received a letter from NYSDEC conditionally accepting the Periodic Review Report (PRR) and Institutional Control/Engineering Control Certification (IC/EC) for the January 1, 2019 through January 1, 2022 monitoring period (included in Attachment B).
- January 5, 2023 – MNR received Information from Westchester County pertaining to the Former Croton Sanitary Landfill. Copies of the documents received were provided by MNR to NYSDEC in the SMP status Report for

the period January 1, 2023 through March 31, 2023 (included in the Site Management Plan Status Report for the reporting period: January 1, 2023 through March 31, 2023 in Attachment C).

- May 2, 2024 – A conference call was conducted with representatives from the NYSDEC, TRC Engineering (TRC), MNR, and DAY to discuss the alternative approach to assess the free product impact in the OUII area that was submitted to the NYSDEC on August 31, 2022.
- May 31, 2024 – MNR contacted the adjacent property owners (i.e., Village of Harmon-on-Croton and Westchester County), provided a description of the proposed work to be completed on these adjacent properties, and requested access to complete this work. The Village of Harmon-on-Croton requested that MNR complete an access agreement. Westchester County requested a directive from the NYSDEC.
- June 12, 2024 – MNR sent an access agreement to the Village of Harmon-on-Croton.
- June 21, 2024 – MNR sent an email transmittal to the NYSDEC which included:
    - a work plan, titled *LNAPL Evaluation Work Plan Operational Unit II – L4 NAPL Area Harmon Railroad Yard Westchester County, New York NYSDEC Site No. 3-60-010*, dated June 2024 and prepared by DAY (LNAPL Evaluation Work Plan), describing the activities proposed to evaluate NAPL at, and in the vicinity of, Harmon Yard OU-II L4 area (included in Attachment B); and
    - document titled *LNAPL Evaluation and Remediation Operational Unit II – L1 NAPL Area Harmon Railroad Yard Westchester County, New York NYSDEC Site No. 3-60-010* describing historic conditions within the OU-II NAPL L1area and impacts on the adjacent Half Moon Bay property (included in Attachment B).
- September 5, 2024 – NYSDEC sent a directive to Westchester County in support of the activities proposed to evaluate LNAPL at select locations on the Former Croton Sanitary Landfill, Railroad I Unit, located in the vicinity Harmon Yard OU-II L4 area.
- September 13, 2024 – Westchester County representatives responded to the NYSDEC Directive in an email, indicating that some of the proposed test boring locations would be within feet of the landfill liner, or possibly on top of the liner, and proposed adjusting the locations of these test borings to the north to reduce the possibility of damage to the landfill's liner system.
- October 16, 2024 – MNR sent a figure depicting revised locations for proposed test borings to NYSDEC, Village of Harmon-on-Croton and Westchester County. The Village of Harmon-on-Croton responded, indicating that the revised locations are within a Westchester County easement area.

- October 17, 2024 – MNR sent an email request to Westchester County, asking the County for its acceptance of the revised test locations, and for its requirements for access to the proposed test boring locations.
- November 26, 2024 – NYSDEC representative (TRC) sent email requesting MNR to review Former Croton Sanitary Landfill, Railroad I Unit as-built plans to determine if the plans may provide information on "how the location and depth of the liner may influence groundwater and LNAPL transport", and to update the conceptual site model for NYSDEC Site No. 3-60-010, as appropriate.
- December 17, 2024 – MNR sent a response to NYSDEC, indicating that a document request will be made to Westchester County for the Former Croton Sanitary Landfill, Railroad I Unit as-built plans, and further, to resend the request made to Westchester County on October 17, 2024.
- December 20, 2024 – MNR sent an email request to Westchester County for the Former Croton Sanitary Landfill, Railroad I Unit as-built plans and re-sent the request made to Westchester County on October 17, 2024. Westchester County responded, indicating that MNR should prepare an access agreement for the proposed test borings, and that the as-built plans from the 1970's are not scanned, but that MNR could review the plans in person. (Note: a DAY representative photographed the as-built plans on January 10, 2025).

Note: On November 11-12 2024, DAY representatives developed select monitoring wells in the OUII NAPL L4 Area in preparation for Transmissivity Testing work described in Section 3.3 of the LNAPL Evaluation Work Plan (refer to Attachment B.) Handling/testing of the development fluids is further described in the Site Management Plan Status Report for the reporting period: October 1, 2024 through December 31, 2024 in Attachment C. The remaining tasks described in the LNAPL Evaluation Work Plan are currently scheduled to commence beginning in January 2025.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

The OU I remedy eliminated the source of the original contamination with the decommissioning and demolition of the wastewater treatment plant, the excavation/disposal of contaminated sludge and soil, and the closure of the former equalization lagoon with a permanent cap system. The effectiveness of this remedy is evaluated by the completion of bi-annual inspections of the cover system, quarterly (or more frequent) NAPL thickness monitoring, and annual groundwater sampling/testing.

During the reporting period, bi-annual inspections were completed on May 19, 2022, October 27, 2022, April 21, 2023, October 13, 2023, April 19, 2024 and October 3, 2024. Copies of these inspection reports, which include copies of photographs taken at the time of the inspections, are included in the quarterly SMP status reports provided in Attachment C. The results of the inspections are also discussed in Section V.

The OU II remedy included the placement at least two feet of environmentally clean soil and/or asphalt pavement at the ground surface to prevent direct contact with waste materials; and initially the in-situ treatment to enhance biodegradation, volatilize vapors associated with NAPL, and removal of NAPL from four areas surrounding the closed lagoon. The effectiveness of the biodegradation and volatilization was evaluated by measurement of carbon dioxide and oxygen levels and by measurement with a PID. These measurements indicated that within the first year of operation the Vacuum Enhanced NAPL Recovery System resulted in low carbon dioxide levels and elevated oxygen levels coupled with low PID readings. This suggested that constituents amenable to biodegradation were removed to the extent possible, and that subsequent remedial actions within OU II should focus on NAPL removal. As such, the effectiveness of the NAPL removal effort is currently monitored by the completion of the bi-annual inspections discussed above, the routine measurement of NAPL thicknesses within monitoring wells, and the sampling/testing of groundwater samples. The NAPL removal efforts conducted since 2002 have reduced, or eliminated, NAPL within wells in each of the NAPL areas, and resulted in a decrease in the concentrations of PCBs reported in the recovered NAPL. Specifically, since 2002 PCB concentrations greater than 50 ppm, have not been detected in samples of the recovered NAPL. The testing of groundwater samples collected as part of the long-term monitoring program for the Site documents that the contaminants of concern identified for the Site (i.e., STARS/CP-51 List volatile organic compounds plus chlorobenzene, STARS/CP-51 List semi-volatile organic compounds plus 2-methylnaphthalene, PCBs, and the metals arsenic, chromium, copper and lead) have not adversely impacted groundwater quality.

The extent of off-site NAPL migration was evaluated during the reporting period via the evaluation of off-site monitoring wells OU II-A through OU II-F. The evaluation of possible NAPL migration around the barrier sheet pile wall installed along the western border of NAPL Area L-1 was evaluated via the monitoring of wells SP-North and WB-9. Samples were also collected annually during the reporting period from monitoring wells VE1-4, VE2-1, VE3-1, and VE4-11 and tested for emerging contaminants (i.e., PFAS and 1,4-dioxane).

The effectiveness of the remedies implemented at OU I and OU II are documented in the following.

- During the reporting period, samples of NAPL removed from the wells within OU II and from select wells in the OU I area were collected and tested for PCBs. A summary of the PCB concentrations measured in the samples tested to date is presented on Table 1. Copies of analytical laboratory reports for samples tested for PCBs during this reporting period are included in the SMP status reports included in Attachment C.

- NAPL thickness measurements made during the reporting period are included on the logs included in Attachment D.

- The amount of NAPL removed from wells within OU I and OU II during the reporting period is summarized in Table 2.

- Historic NAPL thickness measurements collected in representative wells, and calculated trend lines are shown on Figure 4 through Figure 7c.

- Average thicknesses and trendlines of free product in off-site wells by report period are shown on Figure 8.

- A bar graph depicting NAPL recovered by quarterly monitoring periods is provided as Figure 9.

- Disposal documentation for the NAPL removed from OU I and OU II in the reporting period is included in SMP status reports provided in Attachment C.

- The results of the groundwater monitoring completed at the Site are discussed in Section V of this PRR.

IV. IC/EC Compliance Report

A. IC/EC Compliance Report

1. A description of each control, its objective, and how performance of the control is evaluated is provided below:

   - Site Management Plan: The objective of the SMP is to manage remaining contamination present at the Site that is above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, a Site Monitoring Plan and an Operation and Maintenance Plan. The performance of the controls outlined in the above plans is evaluated through monitoring and periodic certification. Controls on the Site include:

     - Construction of a cover system over the former equalization lagoon to eliminate direct contact and preclude discharge of remaining contamination into the groundwater;

     - Installation of fencing surrounding the Site and restricting access to the Site to authorized personnel, which limits access to possible contamination and prevents vandalism/damage to the completed remedies;

     - Placement of a minimum of 2 feet of clean soil or asphalt pavement throughout the Site to provide a barrier to potentially contaminated subsurface materials;

- Restricting the use of groundwater underlying the Site without treatment rendering it safe for its intended use to prevent the ingestion of contamination;

- Prohibiting vegetable gardens and farming on the Site to prevent ingestion of contaminants present in the subsurface;

- Completing regular monitoring/testing to document the continued removal of NAPL and assure groundwater quality is not impacted by NAPL or associated contaminants; and

- Implementing the specific requirements outlined in the SMP including the provisions of the IC/EC Plan (including the Excavation Work Plan, Soil Vapor Intrusion Evaluation, and Contingency Plan), Site Monitoring Plan, and Operation and Maintenance Plan to assure the provisions described in these documents are followed.

- Declaration of Covenants and Restrictions (DCR): This document was filed to provide an enforceable legal instrument to ensure compliance with the SMP including the ICs and ECs placed on the Site.

2. Status:

   Each control is in place, functioning as intended, and effective in achieving its intended purpose.

3. Corrective Measures:

   Specific corrective actions were not completed during the reporting period, but actions were taken to enhance the removal of NAPL. These include, the monitoring of wells within OU I (and the removal of NAPL from the OU I wells, if necessary).

4. Conclusions and Recommendations for Changes:

   No changes to the controls being implemented at the Site are recommended at this time.

B. IC/EC Certification

Executed copies of the certification documents are included in Attachment E.

V. Monitoring Plan Compliance Report

A. Components

- Site-Wide Inspections: Bi-annual inspections are completed to observe and document the condition of the cover system installed at OU I and OU II, the condition of monitoring wells, the condition of drainage channels, compliance with ICs, the effectiveness of ECs, and to assure that adequate records are maintained. Site-wide emergency inspections are also performed after all severe weather events that have the potential to affect ECs and monitoring wells.

- Groundwater Monitoring Plan: Groundwater monitoring was completed as outlined in the monitoring schedule presented in the previous PRR. An updated groundwater monitoring plan is included in Attachment F. The purpose of this monitoring is to measure NAPL thicknesses and the depth to groundwater and, depending on the amount encountered, to remove NAPL. In addition, groundwater samples are collected annually for analytical laboratory testing from OU II Area L-1 monitoring wells VE1-2, and VE1-4; OU II Area L-2 monitoring well VE2-1; OU II Area L-3 monitoring well VE3-1; OU II Area L-4 monitoring wells DAY-1, FA4-9, FA4-16, VE4-7, VE4-9, VE4-11, and PGW-2; and off-site monitoring wells OUII-A, through OUII-F. This plan also covers monitoring well repairs, replacement, and decommissioning.

B. Summary of the Monitoring Completed

- Site-Wide Inspections: During the reporting period, routine bi-annual inspections were completed on May 19, 2022, October 27, 2022, April 21, 2023, October 13, 2023, April 19, 2024, and October 3, 2024. In addition, an emergency inspection was completed on July 10, 2023 (i.e., following a heavy rain event that occurred on July 9, 2023). Copies of these inspection reports are included in the SMP status reports included in Attachment C. (Note: a copy of the May 19, 2022 inspection report was not included in a status report, but has been included in Attachment C.) The need for corrective actions (i.e. resulting from heavy rainfall) was not identified by the emergency inspection completed on July 9, 2023. As shown in the routine inspection reports, only relatively minor corrective actions were deemed necessary (e.g., continued removal of scrap metal from OU-II areas around the asphalt cover, replacement of a well cap on OUI piezometer P7, sealant of cracks in the asphalt cover, repair of the OUII L1 area monitoring well AI1-11 stickup well casing, etc.), and the ICs and ECs were found to be functioning properly.

- Groundwater Monitoring Plan: The results of the groundwater monitoring conducted within the reporting period are summarized in the following:

- Copies of the NAPL thickness, groundwater level, and NAPL removal logs prepared for events conducted during the reporting period are included in Attachment D.

- Table 2 summarizes the amount of NAPL removed from wells at the Site during the reporting period.

- Historic groundwater elevations measured in select monitoring wells at the Site are included in Table 3.

- Historic NAPL thicknesses measured in select monitoring/NAPL collection wells, and calculated trend lines showing a general decrease in the thickness of the NAPL, are included as Figure 4 through Figure 7c.

- Figure 9 shows an increase in the NAPL recovered in 2022, followed by a general decrease in the amount of NAPL recovered annually.

- Groundwater contour maps prepared based on groundwater elevation data collected at various times throughout the reporting period are included in the SMP status reports (Attachment C).

- Copies of the analytical laboratory reports for groundwater samples collected from monitoring wells during the reporting period are included in SMP status reports presented in Attachment C.

- The analytical laboratory results of groundwater samples collected to date are summarized on the following tables:

  - Table 4: Summary of Volatile Organic Compounds
  - Table 5: Summary of Semi-Volatile Organic Compounds
  - Table 6: Summary of Polychlorinated Biphenyls
  - Table 7: Summary of Tested Metals
  - Table 8: Summary of PFAS and 1,4-Dioxane

- Spider diagrams showing the analytical laboratory results of the samples collected during the reporting period are included in the SMP status reports presented in Attachment C.

- Table 9 shows the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date and Figure 8 shows the average free product thickness detected in the off-site monitoring wells by report period. Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment G. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs, with the possible exception of well OUII-D where free product levels are relatively consistent, the amount

of free product detected appears to decrease when the groundwater elevation increases.

C. Comparison with Remedial Objectives

- Site-Wide Inspections: The results of the site-wide inspections completed indicate that remedial objectives were achieved during the reporting period. Specifically, the site-wide inspections revealed that the cover system is intact and functioning as designed to eliminate direct contact and prevent discharge of the remaining contamination into the groundwater. Further, fencing is in place and access to the Site is restricted to authorized personnel only, groundwater is not being ingested, vegetable gardens and farming are not conducted at the Site, and ICs and ECs are in place/functioning as intended.

- Groundwater Monitoring Plan: As shown on Figure 4 through Figure 7c, NAPL thicknesses have generally decreased historically in wells evaluated and the analytical laboratory results presented in Table 4 through Table 8 indicate that the concentrations detected are typically below applicable regulatory guidance values. Also, NAPL removal from the monitoring wells was ongoing during the reporting period, with the exception of November 2024 and December 2024 (i.e., subsequent to well development conducted in anticipation of transmissivity testing), as shown on Figure 9. As such, the remedial objective to remove NAPL to the extent practicable is being achieved. The emerging contaminant testing completed during the reporting period identified detectable concentrations of select emerging contaminants (e.g., particularly concentrations of perfluorooctanoic acid [PFOA] perfluorooctanesulfonic acid [PFOS] in samples from monitoring wells VE1-4 and VE2-1). The concentrations measured do not warrant remedial actions at this time. However, further monitoring should be completed during the subsequent reporting period to assess impact and the need for remediation.

- Off-Site NAPL Migration: As shown in the logs in Attachment D, hydrographs in Attachment G, Figure 8, and Table 9, NAPL was detected in off-site monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F during the reporting period. NAPL was not detected in off-site monitoring wells OUII-C and OUII-E. With the exception of monitoring well OUII-D, the thickness of NAPL observed appeared to vary with the static water level (i.e., increased amounts of NAPL were evident when the static water level decreased. The amount of NAPL observed in monitoring well OUII-D was relatively consistent independent of the static water level. During the reporting period, the thickness of NAPL observed in the off-site monitoring wells did not appear to be increasing. As described in the LNAPL Evaluation Work Plan, studies to assess the extent of NAPL in proximity of NAPL Area L-4 are planned for the next reporting period. Based on the findings of the studies completed, NAPL monitoring and removal frequency and methods will be evaluated.

D. Monitoring Deficiencies

There are no monitoring deficiencies at this time.

E. Conclusions and Recommendations for Changes

- Site-Wide Inspections: The site-wide inspections confirmed that the remedial systems/actions for the Site are functioning properly, and effective in achieving their intended objectives. No changes to the site-wide inspection process or changes to the remedial actions based upon the inspections completed are recommended at this time.

- Groundwater Monitoring Plan: Wells should be monitored per the revised Monitoring Schedule provided in Appendix F. Annual sampling should be conducted per the Monitoring Schedule provided in Appendix F.

VI. Operation & Maintenance (O&M) Plan Compliance Report

A. Components of the O & M Plan

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4), and it has been decommissioned. A Magnum Spill Buster^{TM} was installed in NAPL collection wells RW-1, AI2-3, FA4-8, and FA4-17 in 2017 and a portable product only recovery device (i.e., Magnum Spill Buddy Pro^{TM}) was used to collect product in select wells that historically have been shown to contain NAPL. These systems are no longer functional and are not available for purchase or repair. NAPL is currently removed from monitoring wells using a variety of methods. A Geotech Product Recovery Canister (PRC) Passive Skimmer (i.e., a passive skimmer designed to recover product-only layers) was installed in well FA4-17 in the previous report period, and a belt skimmer was installed in well FA4-8 in May 2024. Both of these recovery systems were operational until November 12, 2024 (i.e., when shut down as part of transmissivity testing completed at the Site). These systems are expected to be restarted in 2025 when transmissivity testing is complete. A peristaltic pump connected to a Heron Oil-Water interface probe is used to remove free product from other wells. Five additional Geotech PRC Passive Skimmers have been purchased and are expected to be installed in select wells during 2025.

Currently, the NAPL collected is placed in 55-gallon drums, which are stored within a waste accumulation area. When drums are full, they are sampled and tested for PCBs via USEPA Method 8082 and transported off-site for disposal. On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing

confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

B. Summary of O & M Completed During the Reporting Period

The Vacuum Enhanced NAPL Recovery System operated between 2002 and 2008 (NAPL Areas L1 and L2) and 2009 (NAPL Areas L3 and L4), and the operation of this system has been discussed elsewhere in this report. The current components of the O&M Plan (NAPL removal via product recovery devices, and bailers) started prior to the decommissioning of the Vacuum Enhanced NAPL Recovery System and it continued throughout the reporting period. During the reporting period, approximately 882 gallons of NAPL was removed from the Site.

C. Evaluation of the Remedial Systems

The methods currently used to remove NAPL from the Site are effective and they are functioning as designed/expected.

D. O&M Deficiencies

No deficiencies were identified in complying with the O&M plan during the reporting period.

E. Conclusions and Recommendations for Improvements

Overall, the O&M activities at the Site satisfactorily addressed their intended remedial function.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

The requirements identified in the SMP for the Site were met during the reporting period and no modifications are required to bring the plan into compliance.

B. Performance and Effectiveness of the Remedy

An evaluation of the components of the SMP during the reporting period indicated that: the IC/EC controls were protective of human health and the environment, the monitoring plan sufficiently monitored the performance of the remedies implemented, the O&M Plan adequately addressed the on-going removal of NAPL, and the remedial program is achieving the remedial goals identified for the Site.

C. Future PRR Submittals

1. It is recommended that the frequency of future PRRs remain as identified in the SMP (i.e., submitted every three years subsequent to this report, such that the next PRR covers the reporting period January 1, 2025 through January 1, 2028). In addition, it is recommended that SMP status reports continue to be submitted on a quarterly basis. If warranted, corrective action plans will be prepared and implemented to address additional remedial actions deemed necessary. The results of such remedial actions will be presented in the quarterly status report during the upcoming reporting period.

2. The findings of the work completed pursuant to the implementation of the LNAPL Evaluation Work Plan (including supplemental remediation, if deemed necessary) will be described in the next PRR.

3. The requirements for site closure have not been achieved. As such, it is recommended that site management continue.

PERIODIC REVIEW REPORT
REPORTING PERIOD JANUARY 1, 2022 THROUGH JANUARY 1, 2025
HARMON RAILROAD YARD – WASTE WATER AREA
CROTON POINT ROAD
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO. 360010

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ATTACHMENTS

Attachment A Declaration of Covenants and Restrictions with Property Survey Map
Attachment B Correspondence received from NYSDEC in Report Period
Attachment C Site Management Plan Status Reports
Attachment D NAPL Thickness Measurements and Static Water Level Logs
Attachment E Institutional and Engineering Control Certification Forms
Attachment F Monitoring Schedule
Attachment G Off-Site Monitoring Well Hydrographs

TABLES

Table 1

NYSDEC Site #3-60-010
Harmon Yard Waste Water Area
OU II NAPL Areas L1 through L4

Summary of Waste Characterization Testing for PCBs
Recovered NAPL

Date Sampled	Sample Identification	Total PCBs (mg/kg)	Remarks
9/13/2022	Harmon OU II Well AI2-3 no. 2	ND	Oil collected from AI2-3
10/6/2022	Harmon OU II Misc Oil Recovery Drum A	ND	Specific wells not identifed (may include wells V4, VE1-1, FA4-11, FA4-13, FA4-14, FA4-15, FA4-16, FA4-18, PGW-2, and/or VE4-5)
10/6/2022	Harmon OU II Misc Oil Recovery Drum B	ND	
10/6/2022	Harmon OU II Misc Oil Recovery Drum C	ND	
11/11/2022	Harmon Well RW1 - A	ND	Oil collected from RW1
11/11/2022	Harmon Well RW1 - B	ND	Oil collected from RW1
11/11/2022	Harmon Well RW1 - C	ND	Oil collected from RW1
11/11/2022	Harmon Well RW1 - D	ND	Oil collected from RW1
8/1/2023	Well AI 2-3 H2 Recovered Oil - Drum #1	ND	Oil collected from AI2-3
8/1/2023	Well AI 2-3 H2 Recovered Oil - Drum #2	ND	Oil collected from AI2-3
8/1/2023	Well AI 2-3 H2 Recovered Oil - Drum #3	ND	Oil collected from AI2-3
8/1/2023	Well AI 2-3 H2 Recovered Oil - Drum #4	ND	Oil collected from AI2-3
11/13/2024	Harmon Well RW1 - A	4.89	Oil collected from RW1
11/13/2024	Harmon Well RW1 - B	ND	Oil collected from RW1
11/13/2024	Harmon Well RW1 - C	4.38	Oil collected from RW1
11/13/2024	Harmon Well RW1 - D	4.68	Oil collected from RW1

Table 2
Harmon Yard Waste Water Area
NYSDEC Site No. 3600010
Summary of NAPL Removed from Wells
Reporting Period: January 1, 2022 through January 1, 2025

Well ID	Total NAPL Removed (gal)	Well ID	Total NAPL Removed (gal)
P1	0.00	DAY-1	0.00
P2	0.00	FA4-8	78.35
P3	0.00	FA4-9	1.00
P4	0.00	FA4-10	0.00
P5	0.00	FA4-11	16.95
P6	0.00	FA4-12	2.38
P7	0.00	FA4-13	0.00
P8	0.00	FA4-14	56.38
P9	0.00	FA4-15	15.83
P10	0.00	FA4-16	10.85
V1	0.00	FA4-17	24.94
V2	0.00	FA4-18	18.41
V3	0.00	FA4-19	0.00
V4	14.33	FA4-20	0.00
OU I Total	***14.33***	FA4-21	0.00
AI1-1	0.00	FA4-23	0.00
AI1-4	0.00	PGW-2	1.25
AI1-8	0.00	RW-1	356.86
AI-1-11	0.00	VE4-1	0.00
AI1-12	0.00	VE4-5	38.10
AI1-15	0.00	VE4-6	0.00
AI1-16	0.00	VE4-7	0.00
VE1-1	8.26	VE4-8	0.00
VE1-2	0.00	VE4-9	0.00
VE1-3	0.00	VE4-10	0.63
VE1-4	0.00	VE4-11	0.00
OU II NAPL Area L-1 Total	***8.26***	VE4-12	0.00
AI2-2	0.00	VE4-13	0.00
AI2-3	237.25	***OU II NAPL Area L-4 Total***	***621.93***
VE2-1	0.00		
OU II NAPL Area L-2 Total	***237.25***		
AI3-4	0.00		
AI3-6	0.00		
VE3-1	0.00		
OU II NAPL Area L-3 Total	***0.00***		

Notes:

P1	Wells located within OU-I
AI1-1	Wells located within OU II NAPL Area L-1
AI2-2	Wells located within OU II NAPL Area L-2
AI3-4	Wells located within OU II NAPL Area L-3
DAY-1	Wells located within OU II NAPL Area L-4

Table 3
Harmon Yard Waste Water Area
NYSDEC Site No. 3600010
Summary of Groundwater Elevation Measurements
Reporting Period: January 1, 2022 through January 1, 2025

Well	February 2022	May 2022	July 2022	November 2022	March 2023	May 2023	August 2023	October 2023	February 2024	May 2024	August 2024	November 2024
P1	6.49	6.87	6.19	5.48	6.49	6.21	6.11	6.97	6.58	7.17	6.25	5.44
P2	6.18	6.46	6.03	5.34	6.51	6.04	6.08	6.73	6.43	6.76	6.00	5.43
P3	6.60	6.17	6.46	5.05	6.25	6.15	6.05	6.75	6.85	6.82	5.99	5.99
P4	6.61	6.19	5.99	5.26	6.07	6.20	6.13	6.68	6.75	6.85	5.93	5.73
P5	--	6.94	--	--	--	--	--	9.68	--	5.92	4.89	4.89
P7	3.85	4.33	3.55	3.11	2.90	4.07	4.30	--	4.89	4.66	4.02	3.13
P8	4.22	4.91	3.98	3.35	3.96	3.98	4.10	5.07	4.96	5.33	3.79	2.90
P9	4.15	4.33	3.82	3.03	3.89	4.02	4.09	4.80	4.78	4.79	3.86	2.91
P10	3.93	4.59	3.97	--	--	4.26	4.27	4.99	5.01	4.94	4.21	3.30
V-1	9.57	10.21	6.46	5.64	6.40	6.47	6.74	6.90	7.07	7.23	6.47	5.93
V-2	7.83	8.70	3.93	3.81	4.05	4.65	4.52	5.00	5.22	4.89	4.12	3.62
V-3	8.12	8.83	3.95	3.21	4.05	4.65	4.56	5.07	5.21	4.82	4.25	3.41
V-4	7.98	8.69	3.86	3.31	4.01	4.59	4.54	5.06	4.72	4.83	4.15	3.23
SP-North	--	--	4.22	3.64	3.85	4.41	4.26	4.69	5.12	4.71	4.16	3.15
AI1-1	4.32	4.63	4.51	4.04	4.77		4.93	5.29	3.54	5.26	4.66	4.12
AI1-4	3.34	3.91	3.78	5.27	3.85	4.08	4.27	4.77	3.88	4.65	4.07	3.25
AI1-8	3.33	3.96	3.73	3.15	3.75	4.04	4.21	4.71	8.04	4.58	4.02	3.15
AI1-11	6.44	7.34	3.74	3.65	3.91	6.85	4.04	4.91	5.15	4.70	3.97	2.93
AI1-12	3.22	2.88	3.77	3.13	3.77	4.09	4.21	4.65	4.74	4.56	3.96	3.16
AI1-15	3.53	4.08	3.77	3.06	3.79	4.18	4.42	4.69	5.31	4.58	7.57	6.92
AI1-16	3.94	4.41	4.02	3.52	4.23	4.40	4.50	4.91	5.12	4.79	4.28	3.23
VE1-1	5.22	5.68	3.73	2.91	3.85	4.22	4.47	5.00	4.96	4.75	4.24	3.23
VE1-2	5.70	6.16	3.82	3.97	3.95	4.29	5.03	4.84	5.03	4.70	4.09	3.23
VE1-3	5.46	6.17	3.71	2.36	3.76	4.08	7.16	--	4.82	4.60	3.99	3.17
VE1-4	5.43	5.87	3.71	4.58	3.76	--	--	--	4.85	4.53	4.03	3.15
WB-9	5.18	5.39	5.19	4.62	5.53	5.64	5.83	5.92	6.27	5.93	2.38	4.95
AI2-2	5.80	6.31	6.36	5.77	6.27	--	--	7.12	8.51	7.15	6.50	5.82
AI2-3	6.42	12.96	6.22	5.72	6.35	6.78	6.86	7.19	7.32	7.16	6.56	5.88
VE2-1	1.94	2.45	6.32	5.64	6.57	6.72	6.77	7.13	8.53	7.16	6.53	5.86
AI3-4	3.18	3.39	6.39	5.56	6.38	--	4.07	7.02	5.01	7.09	6.48	5.70
AI3-6	6.49	6.78	--	--	--	--	--	--	8.08	7.19	6.45	--
VE3-1	3.39	9.17	--	--	--	6.78	6.94	7.05	7.45	7.10	5.00	5.94
DAY-1	5.65	6.59	5.75	5.16	6.39	6.37	5.74	6.63	7.38	6.76	5.45	4.60
FA4-8	6.14	6.37	6.22	5.60	6.56	7.14	6.82	7.03	8.58	7.46	6.61	5.91
FA4-9	7.03	7.55	6.49	5.13	6.82	7.79	7.05	7.81	7.11	7.89	6.09	5.39
FA4-10	--	--	--	--	--	6.74	6.87	7.17	7.83	--	--	--
FA4-11	6.42	6.79	6.17	5.44	6.85	6.54	6.67	6.97	7.64	7.11	6.13	5.44
FA4-12	--	--	6.24	5.53	6.54	6.54	6.51	6.87	7.46	7.20	6.25	5.64
FA4-13	3.57	4.32	6.17			4.15	6.82	7.34	8.00	7.52	6.51	2.83
FA4-14	6.09	6.69	6.13	5.42	6.27	6.56	6.43	6.71	7.30	7.06	5.95	5.48
FA4-15	3.47	3.83	6.21	--	--	--	6.39	6.89	7.64	7.03	6.17	5.48
FA4-16	6.18	10.47	6.24	5.53	6.42	6.79	6.51	6.91	7.63	7.33	6.17	5.48
FA4-17	3.16	-0.06	6.23	--	--	6.95	6.75	7.03	7.64	7.26	6.31	5.61
FA4-18	6.21	6.59	6.22	--	--	6.67	6.46	6.85	7.34	7.04	6.09	5.48
FA4-20	6.23	6.56	5.36	5.58	6.67	5.88	7.00	7.47	8.32	7.57	6.79	6.19
FA4-21	6.20	6.83	5.23	5.47	6.39	6.58	6.50	6.99	7.21	7.00	6.36	5.66
FA4-23	0.01	0.01	6.28	5.64	6.23	6.74	6.86	7.09	7.34	7.19	6.54	5.71
PGW-2	6.09	6.42	5.43	4.97	6.84	6.72	6.02	6.88	7.57	7.02	5.62	4.86
RW-1	5.86	6.50	6.19	5.41	6.42	6.54	6.47	6.87	7.27	7.20	6.09	5.64
VE4-1	9.13	9.10	6.61	5.61	8.40	8.20	7.14	6.22	7.04	6.63	4.60	3.83
VE4-5	5.96	6.76	6.09	5.02	6.44	6.60	6.09	6.55	6.85	6.61	5.70	5.28
VE4-6	8.13	8.41	6.16	5.05	7.70	7.82	--	--	8.93	7.95	6.38	5.67
VE4-7	8.13	8.72	6.19	5.44	6.70	7.27	6.64	7.00	7.54	7.27	6.34	5.64
VE4-8	8.47	8.82	6.30	5.46	6.72	7.36	6.69	7.19	7.83	7.43	6.34	5.66
VE4-9	8.48	8.72	6.22	5.56	6.63	6.94	6.68	7.00	7.59	7.20	6.35	5.68
VE4-10	7.94	8.24	6.26	5.64	6.67	6.84	6.62	7.20	8.91	7.47	6.24	5.69
VE4-11	10.01	9.82	7.70	5.48	6.80	--	--	6.49	8.08	6.15	5.02	4.48
VE4-12	8.09	8.35	6.21	5.55	6.43	6.59	6.90	6.94	9.08	7.10	6.41	5.68
OUII-A	6.62	6.94	6.26	5.61	6.75	6.53	6.47	7.02	7.24	6.84	5.94	5.04
OUII-B	6.24	6.63	6.14	5.50	6.72	6.65	6.51	6.98	7.72	7.21	6.02	5.38
OUII-C	6.73	6.86	6.23	5.51	7.02	6.62	6.56	7.17	7.49	7.29	5.85	5.43
OUII-D	7.03	6.60	6.07	5.44	6.51	5.89	6.51	6.83	7.51	7.13	6.14	5.64
OUII-E	6.44	6.70	5.96	5.32	6.54	6.19	6.25	6.84	6.62	7.05	5.79	5.37
OUII-F	6.43	6.31	5.21	4.89	6.92	6.66	6.18	6.65	7.79	6.89	5.21	4.70

Notes:

Groundwater Elevations are presented in feet, referenced to Mean Sea Level.

If no groundwater elevation is shown, no static water level measurement was taken on this date.

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date																														
		VE 1-2																VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP	10/2/24
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [1.0] J
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [1.0] J	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J	ND [0.53]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [1.0] J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J	**16**
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date															VE 2-1															VE 3-1	
		9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	6/3/2020	8/25/21	8/11/22	3/9/23	10/2/24	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50	1.2
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.20	1.3 J
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40	1.2
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J	ND [0.53]
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	1.0	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0] J	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [1.0] J	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0] R	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value
Qualifer added by Data Validator

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																														
		VE 4-11																	DAY 1														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]	0.64
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	1.2
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [0.53]	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.53]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]	ND [1.0] J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0] J
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0] J
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																														
		Field Blank												Trip Blank																		
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	10/4/24	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23	10/3/24												
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]	ND [1.0]											
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]	ND [1.0]											
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]	ND [0.50]											
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]	ND [1.0]											
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0] J	ND [1.0]											
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]	ND [1.0]											
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J	ND [0.53]											
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]	ND [1.0]											
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]	ND [1.0]											
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]	ND [1.0]											
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J	ND [1.0]											
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]	ND [1.0]											
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]	ND [1.0]											
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]	ND [1.0]											
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]	ND [1.0]											
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]	ND [1.0]											
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]	ND [1.0]											

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value
Qualifier added by Data Validator

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 56 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																					
		OUII-A				OUII-B			OUII-C				OUII-D				OUII-E				OUII-F			
		8/24/21	8/10/22	3/8/23	10/4/24	8/10/22	3/8/23	10/5/24	8/24/21	8/10/22	3/8/23	10/4/24	8/24/21	8/10/22	3/8/2022*	10/4/24	8/24/21	8/10/22	3/8/23	10/4/24	8/24/21	8/10/22	3/8/23	10/4/24
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1254	NS	14.7 D	66 J	33 J	28	28 J	7 J	5.4 J	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	8.30 P	0.61 J	2.3	ND [0.25]	ND [0.12]	0.36 J	ND [0.25]	ND [0.25]	2.00 P	4.8 J	7.5	9.0
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [1.3] J	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.25] J	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.25] J	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.25] J	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25] J	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.50]
Total PCBs	0.09	**14.7**	**66**	**33**	**28 J**	**28**	**7**	**5.4 J**	ND	ND	ND	ND	**8.3**	**0.61**	**2.3**	ND	ND	**0.36**	ND [0.25]	ND	**2**	**4.8**	**7.5**	**9.0**

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		FA4-9				FA4-11	FA4-16				PGW-2			VE4-7				VE4-9			
		8/26/21	8/10/22	3/8/2023*	10/3/24	8/24/21	8/24/21	8/10/22	3/8/2023*	10/3/24	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	10/3/24	8/24/21	8/10/22	3/8/23	10/3/24
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.13]	ND [0.13]	ND [5.0] J	ND [2.5]	ND [1.3]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.13]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.14]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.17]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1254	NS	ND [0.12]	140 J	30 J	ND [0.50] R	0.89 P	10	67 J	34E J	ND [1.3]	2.1	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [1.3] J	ND [0.12]	17 J	52 J	ND [1.3]
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [1.3]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.11]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.50] R	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [1.3] J	ND [0.16]	ND [1.3]	ND [2.5]	ND [1.3]
Total PCBs	0.09	ND	**140**	**30**	**ND**	**0.89**	**10**	**67**	**34**	ND	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND J	ND	**17**	**52**	**ND**

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs
P = Indicates >25% difference for detected concentrations between the two GC columns
J = Value higher than laboratory method detection limit but below laboratory reporting limit
E = Estimated value
* = NAPL sample analyzed
Qualifier added by data validator

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date																																	
		VE 1-2																VE 1-4																		
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP	10/2/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]	ND [2.0]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	29	160	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3	22.3	34	16	ND [10] J	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]	3.6	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date															VE 3-1												
		VE 2-1																											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23	10/2/24	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [2.0]	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [10]	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33	3.9	ND [3.0]

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date																																	
		VE 4-11																DAY 1																		
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [2.0]	ND [2.0]	ND [2.0] J	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9	11
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J	16	ND [10]	33
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3.0]	ND [3.0]	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]	16

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	10/4/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0] J	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]	ND [2.0] J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10] J	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]	ND [3.0] J	ND [3.0]	ND [3.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value
Qualifier added by Data Validator

Table 7 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																				
		VE 1-2	VE 1-4										VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	10/2/24	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23	10/2/24
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	8.2	7.72	7.35	8.2	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]	5.1
Perfluorooctanoic acid (PFOA)	6.7	5.2	**29**	**50**	**51.3**	**15**	**44**	**43**	**12.3**	**7.01**	**6.16**	**14.6**	**7.7**	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	**6.9**	**23**	**7.3**	0.844 J	**7.1**
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	1.4	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]	1.8 J
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	ND [2.2]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]	ND [2.1]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [2.2]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]	ND [2.1]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [2.2]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]	ND [2.1]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [2.2]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]	ND [2.1]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	ND [2.2]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]	ND [2.1]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	4.30	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79	10.1
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [2.2]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]	ND [2.1]
Perfluorooctanesulfonic acid (PFOS)	2.7	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55.5**	**24.1**	**22.7**	**9.8**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**	**60.5**	**33.5**	**32.5**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8]	ND [2.35]	ND [2.38]	ND [2.2]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]	ND [2.1]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18] J	ND [1.57]	ND [1.59]	ND [8.6]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]	ND [2.1]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	10.9	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]	14
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8 J	11.6	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J	4.2
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	9.7	6.84	7.64	7.9	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42	4.8	0.803 J	2.1
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	7.80	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J	1.9
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	ND [8.6] J	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]	ND [7.1]	ND [1.89]	ND [8.5] J
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	ND [8.6] J	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]	ND [7.1]	ND [3.65]	ND [8.5] J
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	ND [2.2] J	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]	ND [2.1]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	ND [2.2] J	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]	ND [2.1]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	24.4	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344	39.6
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	55.5	56.5	57.5	11.6	24	3.4	5.4	0	0	11	14	100	60.5	8.79	14
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	76.50	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888	78.8
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]	ND [100]	ND [100]]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																				
		VE 3-1	VE 4-11									DAY 1	Field Blank					Trip Blank	Equipment Blank			
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23	10/3/24
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [8.9]	ND [1.28]	ND [2.1]	ND [1.9] J	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]	ND [2.1]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	ND [1.8]	ND [0.758]	ND [2.1]	ND [1.9] J	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]	ND [2.1]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	ND [2.1]	ND [1.9] J	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]	ND [2.1]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [2.1]	ND [1.9] J	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]	ND [2.1]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [2.1]	ND [1.9] J	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]	ND [2.1]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [2.1]	ND [1.9] J	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]	ND [2.1]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [2.1]	ND [1.9] J	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]	ND [2.1]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [2.1]	ND [1.9] J	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8] J	ND [1.28]	ND [2.1]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	6.1	4.3 J	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]	ND [2.1]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [2.1]	ND [1.9] J	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]	ND [2.1]
Perfluorooctanesulfonic acid (PFOS)	2.7	**14**	**7.2**	**4.2**	ND [10]	**5.2**	**6.1 I**	**6.6**	ND [1.48]	ND [2.1]	6.0 J	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]	ND [2.1]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [2.1]	ND [1.9] J	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]	ND [2.1]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [2.1]	ND [1.9] J	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]	ND [2.1]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	ND [8.5] J	ND [7.8] J	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]	ND [8.4]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	ND [4.2]	ND [3.9]	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]	ND [4.2]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [8.9]	0.731 JH	ND [2.1]	ND [1.9] J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]	ND [2.1]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [2.1]	ND [1.9] J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]	ND [2.1]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	ND [7.1]	ND [1.91]	ND [8.5] J	ND [7.8]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]	ND [8.4]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	ND [7.1]	ND [3.70]	ND [8.5] J	ND [7.8] J	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]	ND [8.4]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	ND [2.1]	ND [1.9] J	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]	ND [2.1]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [3.6]	ND [1.86]	ND [2.1]	ND [1.9] J	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]	ND [2.1]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	ND	6.0 J	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	6.1	4.3	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	16	16	6.1	10.6 J	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [110]	ND [110]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]	ND	ND [100]	ND	ND	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Samples collected prior to 2023 were analyzed via USEPA method 537M

Samples collected in 2023 & 2024 were analyzed via draft USEPA method 1633

Table 9

NYSDEC Site #3-60-010
Harmon Yard Waste Water Area
Summary of QA/QC Samples Collected and Data Usability Summary Reports

Sample Dates	Sample ID	Laboratory ID	Test Parameters	Remarks	DUSR Date	EqUIS Submittal Date and Acceptance Date
8/10/2022 - 8/11/2022	FA4-9	AD32707-001	PCBs		May 11, 2023	AD32707, AD32715 and JD50085 Submitted 12/29/2023 and Accepted 1/18/2024
	PGW-2	AD32707-002	PCBs			
	OU11-A	AD32707-003	PCBs			
	OU11-B	AD32707-004	PCBs			
	OU11-D	AD32707-005	PCBs			
	OU11-C	AD32707-006	PCBs			
	OU11-E	AD32707-007	PCBs			
	OU11-F	AD32707-008	PCBs			
	VE4-7	AD32707-009	PCBs			
	VE-9	AD32707-010	PCBs			
	FA4-16	AD32707-011	PCBs			
	DAY-1	AD32707-012	VOCs, SVOCs, PCBs, Metals			
	VE2-1	AD32715-01/JD50085-1	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS		June 13, 2023	
	VE1-4	AD32715-02/JD50085-2	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	VE4-11	AD32715-03/JD50085-3	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	VE1-2	AD32715-04	VOCs, SVOCs, PCBs, Metals			
	DUPLICATE 08-11-22	AD32715-05	VOCs, SVOCs, PCBs, Metals	Duplicate sample of VE 1-2		
	EB 081122 1446	AD32715-06/JD50085-4	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Equipment Blank		
	EB081122 1505	AD32715-07/JD50085-5	PFAS	Equipment Blank		
	EB 081122 1515 MS	AD32715-08/JD50085-5S	PFAS	Equipment Blank		
	Trip Blank	AD32715-09	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Trip Blank		
	EB 081122 1515 MSD	AD32715-10/JD50085-5D	PFAS	Equipment Blank		
3/8/2023 - 3/9/2023	DAY-1	AD36716-01	VOCs, SVOCs, PCBs, Metals		May 16, 2023	AD36716 Submitted and Accepted 3/25/2025 23C0686 Submitted 2/7/2024, Accepted 2/22/2024
	VE 4-9	AD36716-02	PCBs			
	FA 4-9	AD36716-03	PCBs			
	VE 4-7	AD36716-04	PCBs			
	FA 4-16	AD36716-05	PCBs			
	PGW-2	AD36716-06	PCBs			
	OuII-A	AD36716-07	PCBs			
	OuII-B	AD36716-08	PCBs			
	OuII-C	AD36716-09	PCBs			
	OuII-D	AD36716-10	PCBs			
	OU11-E	AD36716-11	PCBs			
	OU11-F	AD36716-12	PCBs			
	VE 3-1	AD36716-13	VOCs, SVOCs, PCBs, Metals			
	VE 1-2	AD36716-14	VOCs, SVOCs, PCBs, Metals			
	VE 1-4	AD36716-15/23C0686-01	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS		AD36716 May 16, 2023 23C0686 May 17, 2023	
	VE 1-4 MS	AD36716-16/23C0686-01	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Matrix Spike		
	VE 1-4 MSD	AD36716-17/23C0686-01	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Matrix Spike Duplicate		
	VE 2-1	AD36716-18/23C0686-02	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	VE 4-11	AD36716-19/23C0686-03	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	030923DUP	AD36716-20/23C0686-04	VOCs, PFAS	Duplicate sample of VE 1-4		
	030923EB	AD36716-21/23C0686-05	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Equipment Blank		
	Trip Blank	AD36716-22/23C0686-06	VOCs, PFAS	Trip Blank		
10/3/2024- 10/5/2024	VE 3-1	AD47337-01	VOCs, SVOCs, PCBs, Metals		March 24, 2025	AD47337 Submitted and Accepted 3/31/2025 JD97831 Submitted and Accepted 4/1/2025
	VE 1-2	AD47337-02	VOCs, SVOCs, PCBs, Metals			
	VE 4-11	AD47337-03/JD97831-1	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	VE 4-9	AD47337-04	PCBs			
	FA4-16	AD47337-05	PCBs			
	VE4-7	AD47337-06	PCBs			
	FA4-9	AD47337-07	PCBs			
	OU11-A	AD47337-08	PCBs			
	OU11-B	AD47337-09	PCBs			
	OU11-C	AD47337-10	PCBs			
	OU11-D	AD47337-11	PCBs			
	OU11-E	AD47337-12	PCBs			
	OU11-F	AD47337-13	PCBs			
	EB_100424	AD47337-14/JD97831-2	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Equipment Blank		
	VE4-11-MS	AD47337-15/JD97831-1MS	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Matrix Spike		
	VE4-11-MSD	AD47337-16/JD97831-1MSD	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Matrix Spike Duplicate		
	VE4-61	AD47337-17/JD97831-3	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS	Duplicate sample of VE4-11		
	VE1-4	AD47337-18/JD97831-4	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	VE2-1	AD47337-19/JD97831-5	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane, PFAS			
	DAY1	AD47337-20	VOCs, SVOCs, PCBs, Metals			
	TB	AD47337-21	VOCs	Trip Blank		

Notes:

VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound
PCB= Polychlorinated Biphenyl
Metals = Arsenic, chromium, copper and lead
PFAS = Per- and polyfluoroalkyl substances
DUSR reports are provided in Appendix H

Table 10
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

Table 10 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006
January 1, 2024 - March 31, 2024	Depth to Static Water Level	6.34-7.55	6.84-8.30	5.60-7.00	8.23-10.05	6.99-7.95	2.61-4.40
	Range of Free Product Thickness (ft.)	0-0.01	0.42-1.33	0	1.64-3.66	0-0.01	0-0.01
	Average Free Product Thickness (ft.)	0.002	0.890	0	2.40	0.002	0.002
April 1, 2024 - June 30, 2024	Depth to Static Water Level	6.65-8.00	6.37-7.88	6.08-8.49	6.87-8.03	6.61-8.12	2.96-5.68
	Range of Free Product Thickness (ft.)	0	0.50-1.49	0	1.48-2.63	0-0.01	0
	Average Free Product Thickness (ft.)	0	0.85	0	1.94	0.001	0
July 1, 2024 - September 30, 2024	Depth to Static Water Level	7.49-8.64	7.22-8.47	7.30-8.52	7.59-8.53	7.77-8.74	3.99-8.08
	Range of Free Product Thickness (ft.)	0	0-1.11	0	0.21-1.21	0	0-0.01
	Average Free Product Thickness (ft.)	0	0.21	0	0.85	0	0.005
October 1, 2024 - December 31, 2024	Depth to Static Water Level	8.13-9.28	8.19-9.15	7.68-9.22	8.58-9.38	8.39-9.42	5.07-6.95
	Range of Free Product Thickness (ft.)	0-0.54	0-1.26	0	0.68-1.90	0	0-0.06
	Average Free Product Thickness (ft.)	0.26	0.65	0	1.35	0	0.13

Note:

Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:

Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

Last Date Saved: 08 Feb 2016 Document Path: D:\GIS\Aerial Locus Maps\MN\RHarmon Yard - Monitoring Report Locus Map.mxd

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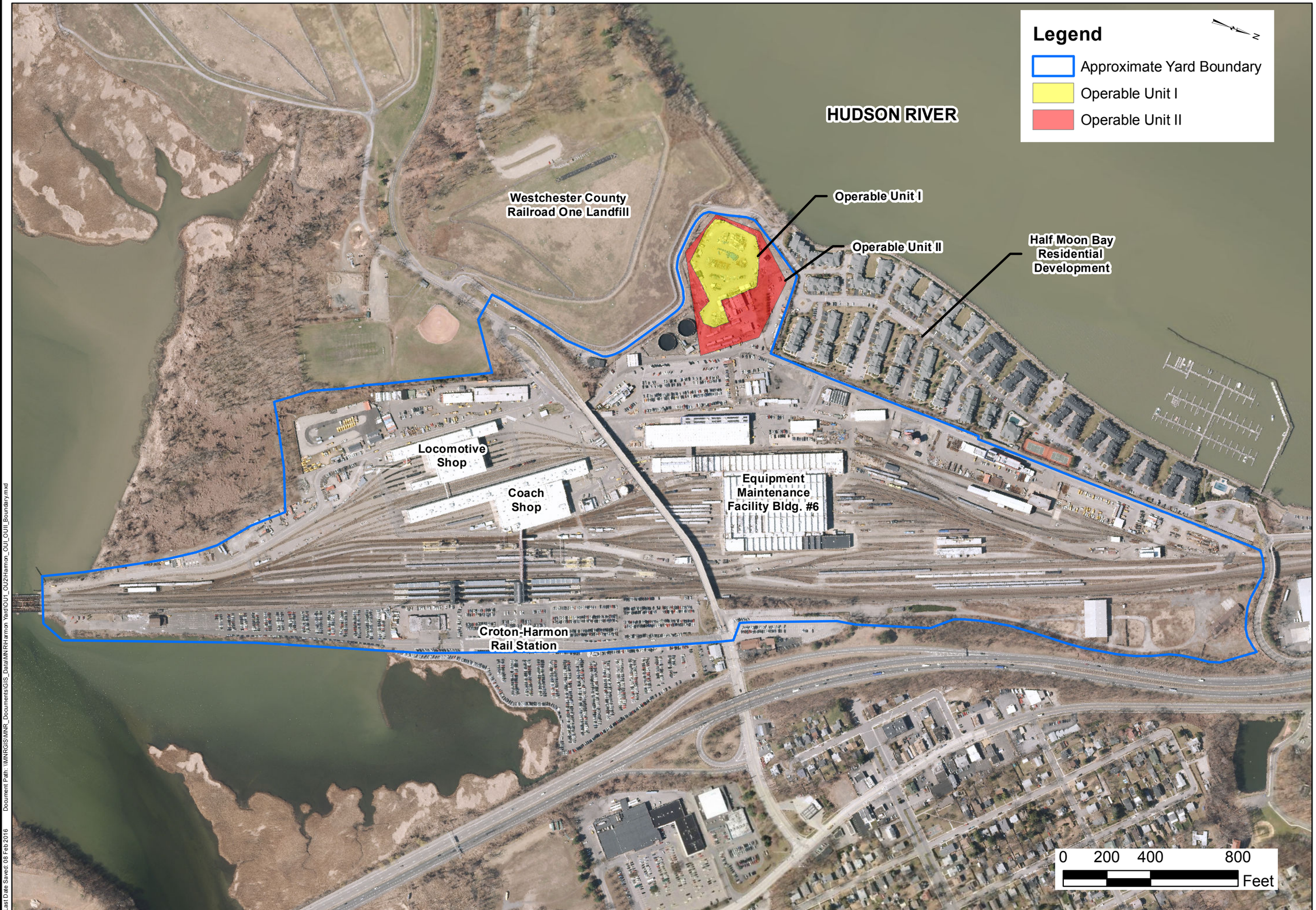
NOTE:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Haverstraw, NY, dated 2010.

Site Coordinates are in Decimal Degrees:

73° 53' 9.72" W 41° 11' 28.64" N

Date: 02-08-2016 Drawn By: CAH Scale: AS NOTED	day **DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14614-1008** **New York, New York 10016-0710**	Project Title: METRO-NORTH RAILROAD HARMON YARD CROTON-ON-HUDSON, NEW YORK NYSDEC SITE #360010 Drawing Title: Project Locus Map	Project No.: 25-3746M (25-086) FIGURE 1



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DESIGNED BY	DATE
RLK	01-2013
DRAWN BY	DATE DRAWN
CPS	01-2013
SCALE	DATE ISSUED
AS NOTED	01-15-2013

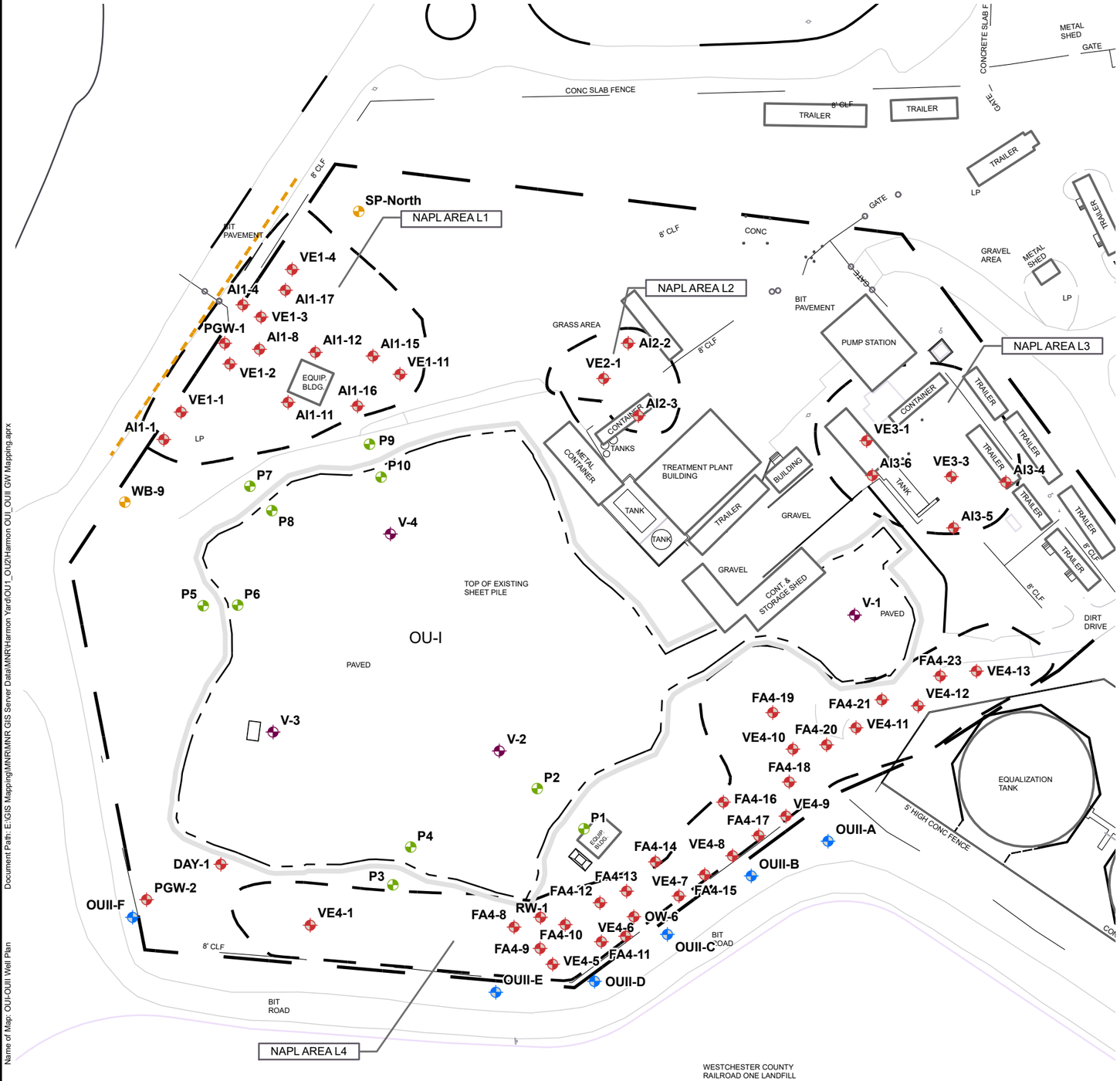
day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
METRO-NORTH RAILROAD
HARMON YARD
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

Drawing Title
Site Location Map

Project No.
25-3746M (25-086)

FIGURE 2



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

V-1	OU-I well within vault
P-9	Piezometer installed around OU-I/OU-II sheet pile wall
VE4-6	Well within OU-II
OUII-A	Off-Site monitoring well
SP-North	Monitoring well in terminus of sheet pile wall in NAPL Area L1

OU-II NAPL area boundaries

Approximate location of sheet pile wall around remediated former lagoon area (OU-I)

Approximate location of L1 sheet pile wall

Extent of OU-I final cover system

OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	01-2025
DRAWN BY	CPS
DATE DRAWN	01-2025
SCALE	As Noted
DATE ISSUED	01-15-2025

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
OU-I and OU-II Well Locations

Project No.
25-3746M

FIGURE 3

Last Date Saved: 1/15/2025 8:14 PM Name of Map: OUI-OUII Well Plan Document Path: E:\GIS Mapping\MNR\MNR GIS Server Data\MNR\Harmon Yard\OU1_OU2\Harmon OUI_OUII GW Mapping.aprx

Figure 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L1
NAPL Thickness Measurements 2002-2024

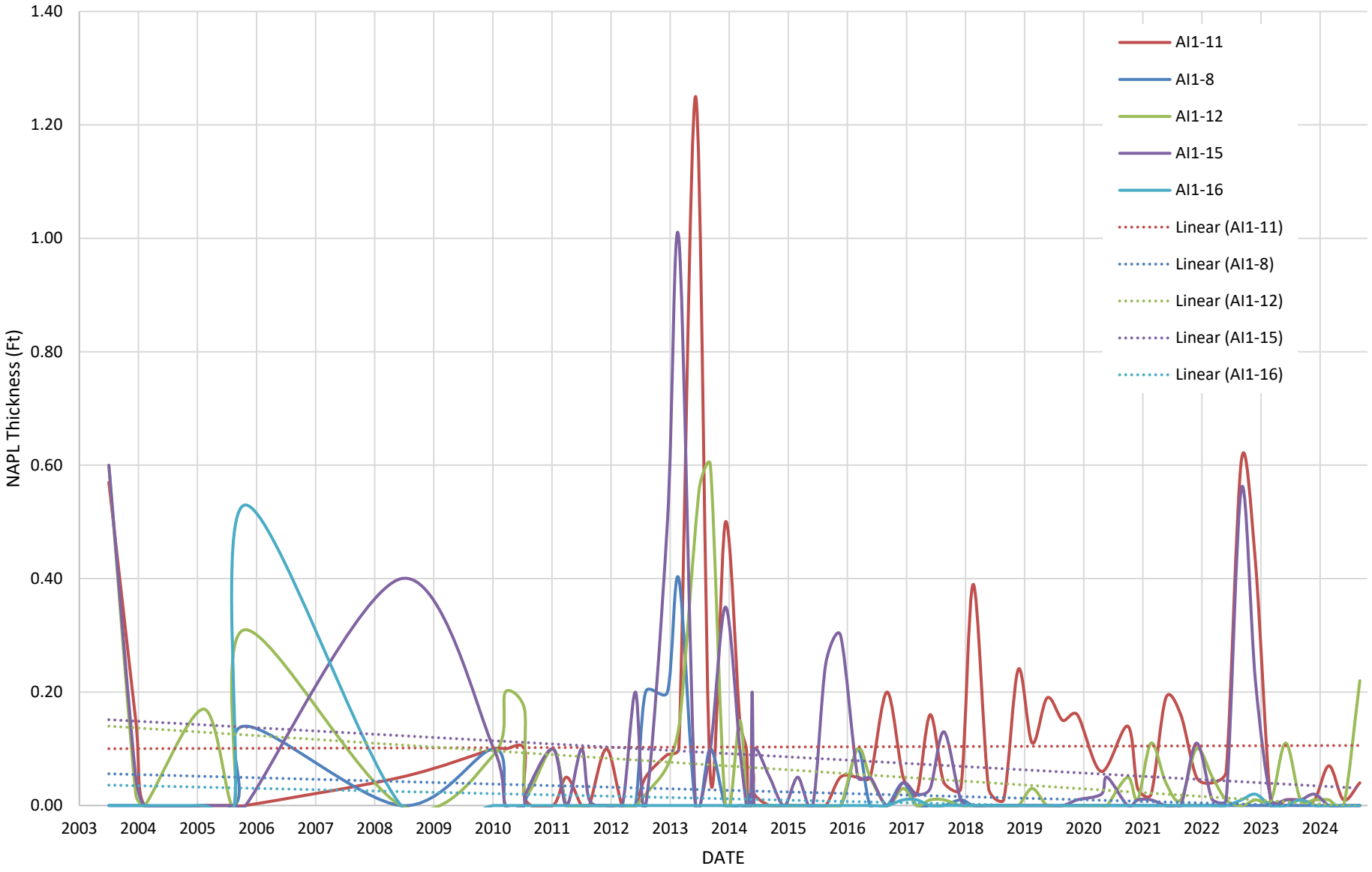


Figure 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L2
NAPL Thickness Measurements 2002-2024

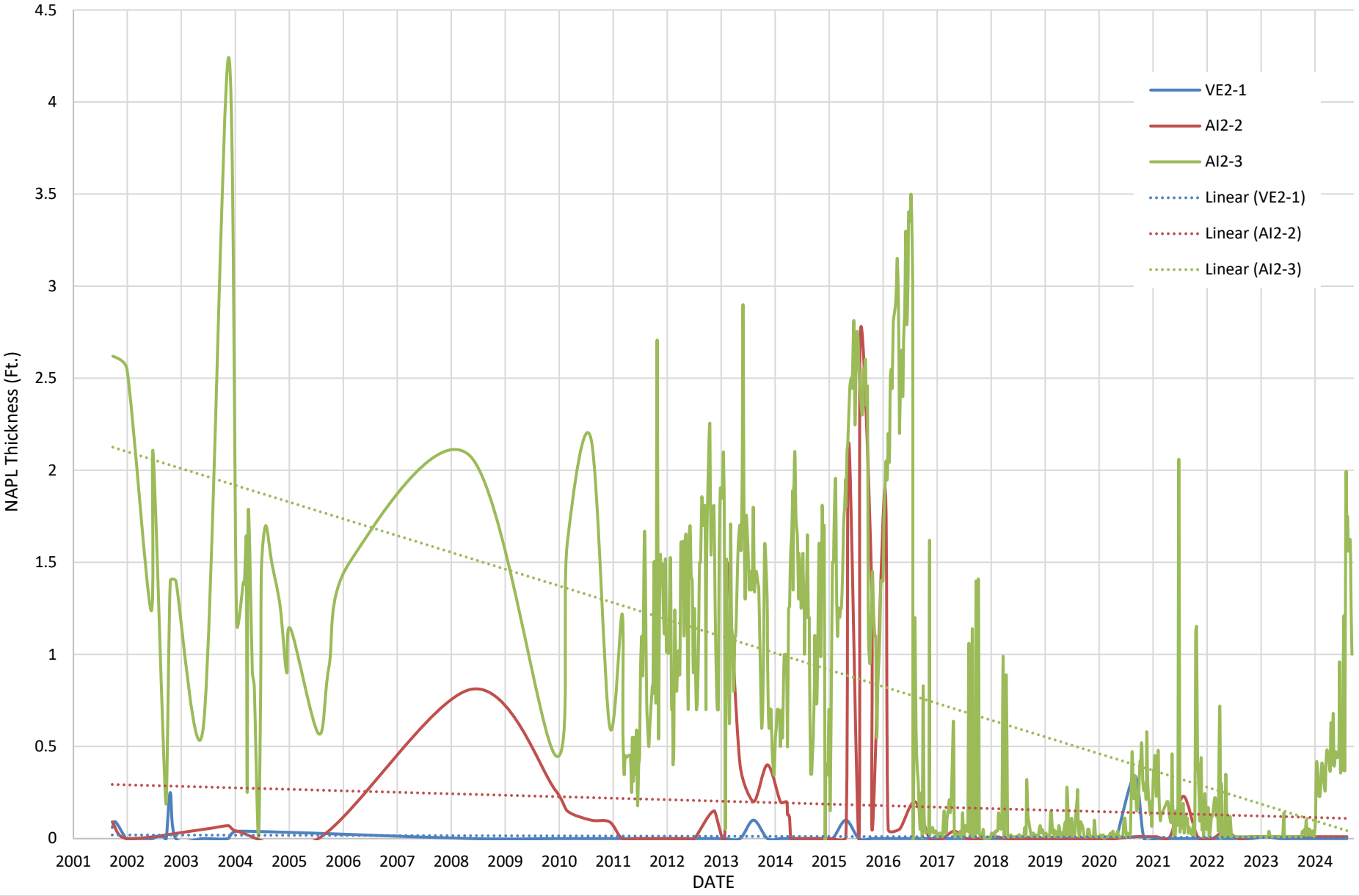


Figure 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L3
NAPL Thickness Measurements 2002-2024

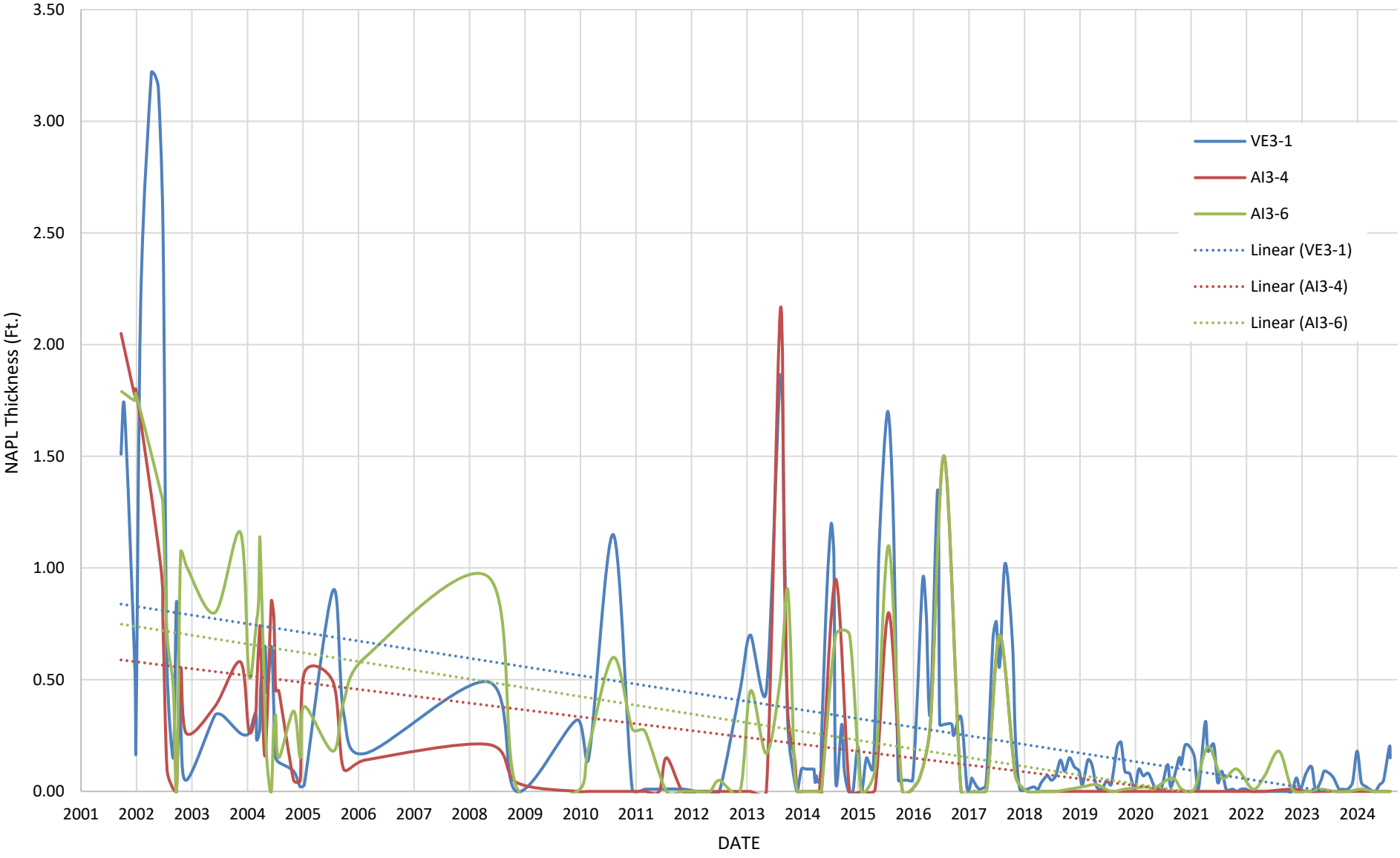


Figure 7a
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L4 - West
NAPL Thickness Measurements 2002-2024

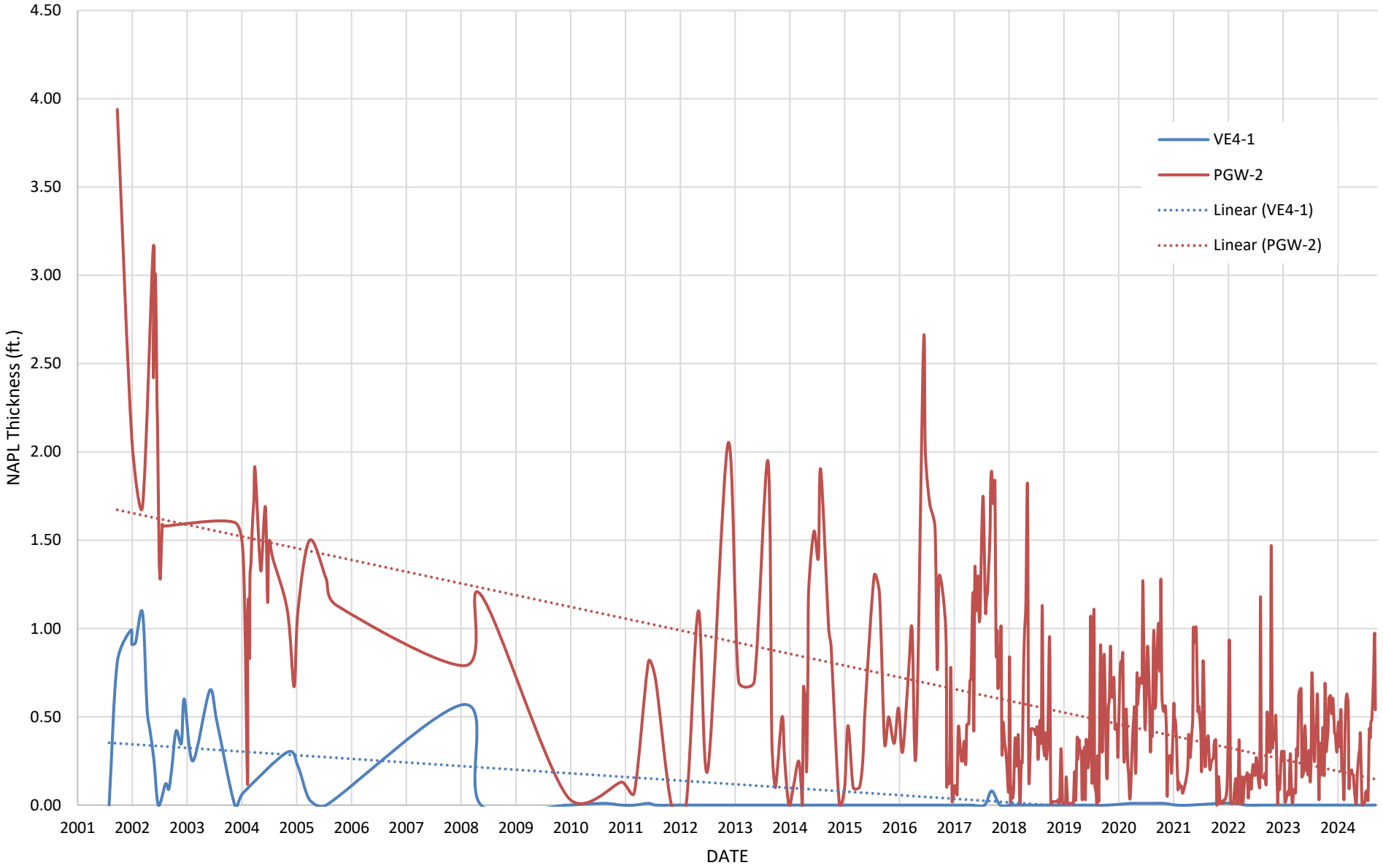


Figure 7b
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L4 - Center
NAPL Thickness Measurements 2002-2024

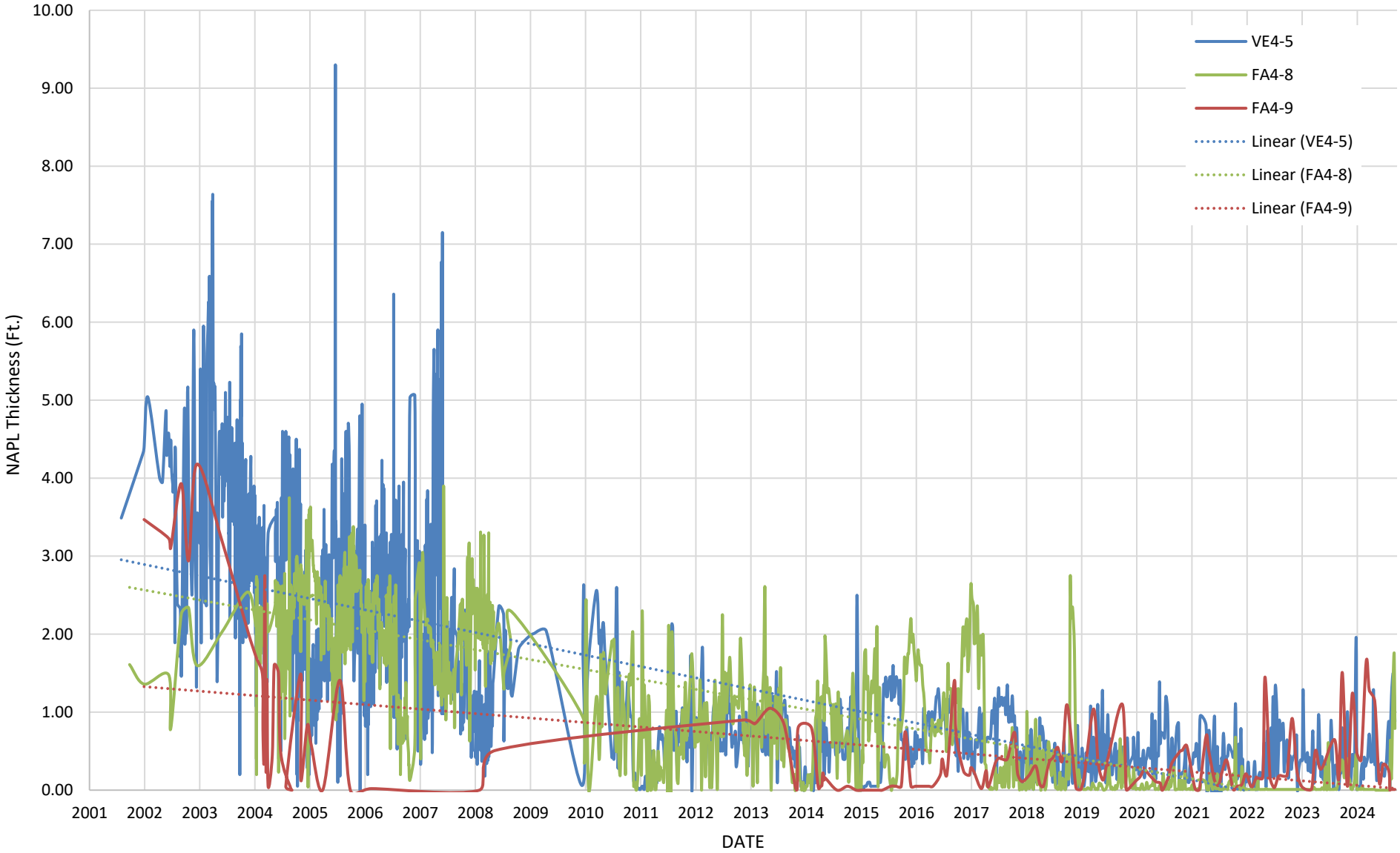


Figure 7c
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II NAPL Area L4 - East
NAPL Thickness Measurements 2002-2024

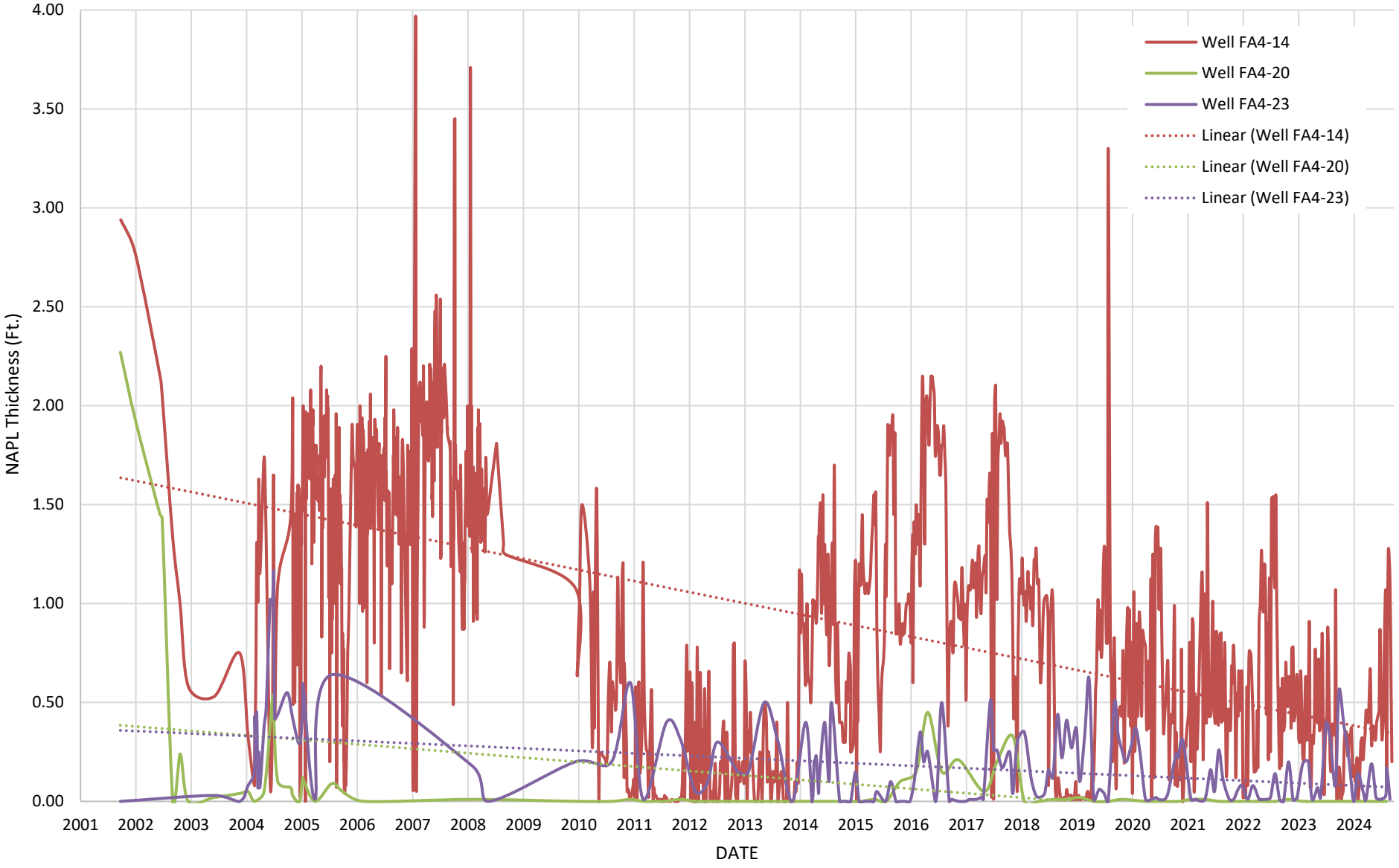


Figure 8: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period

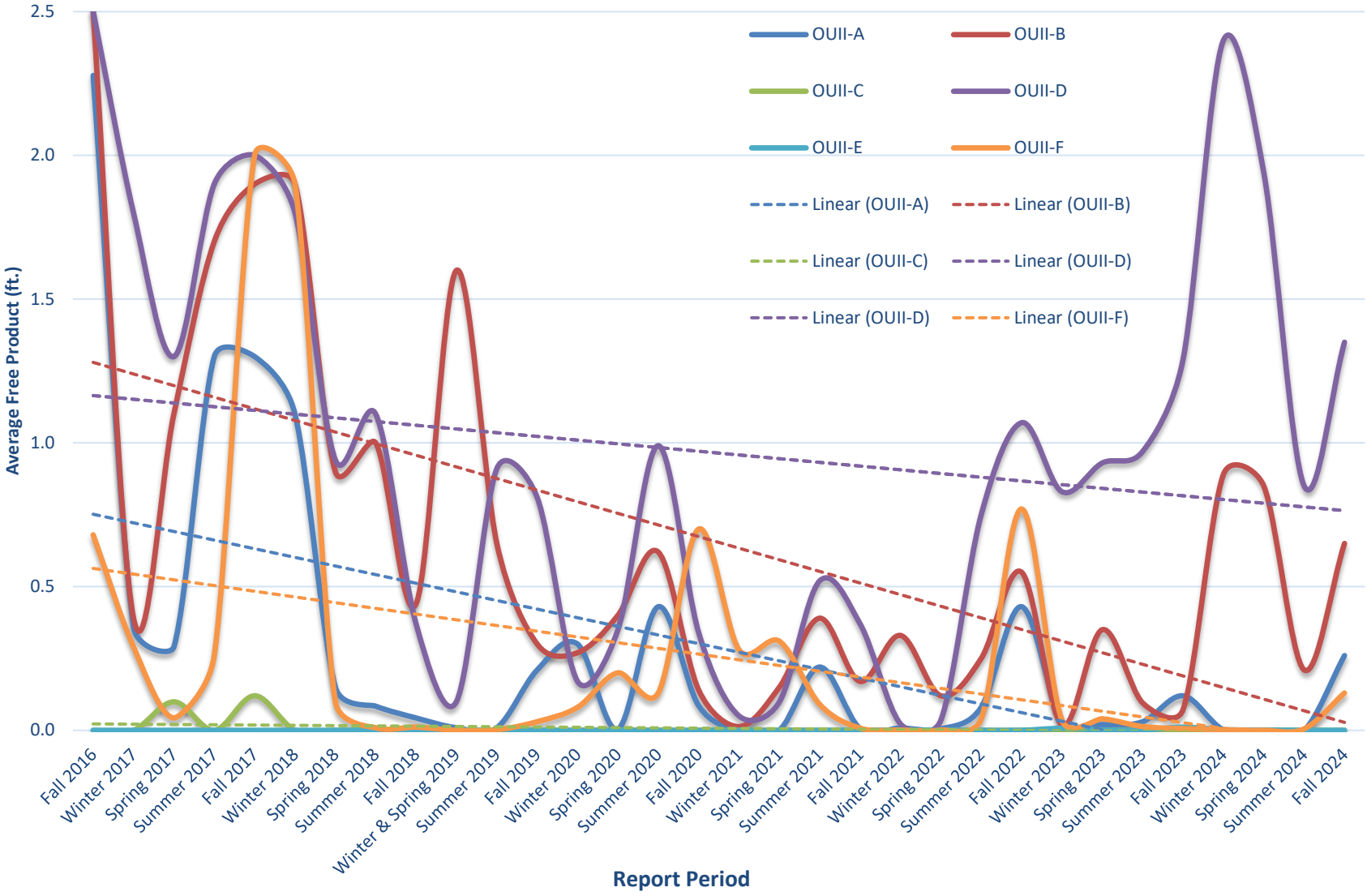
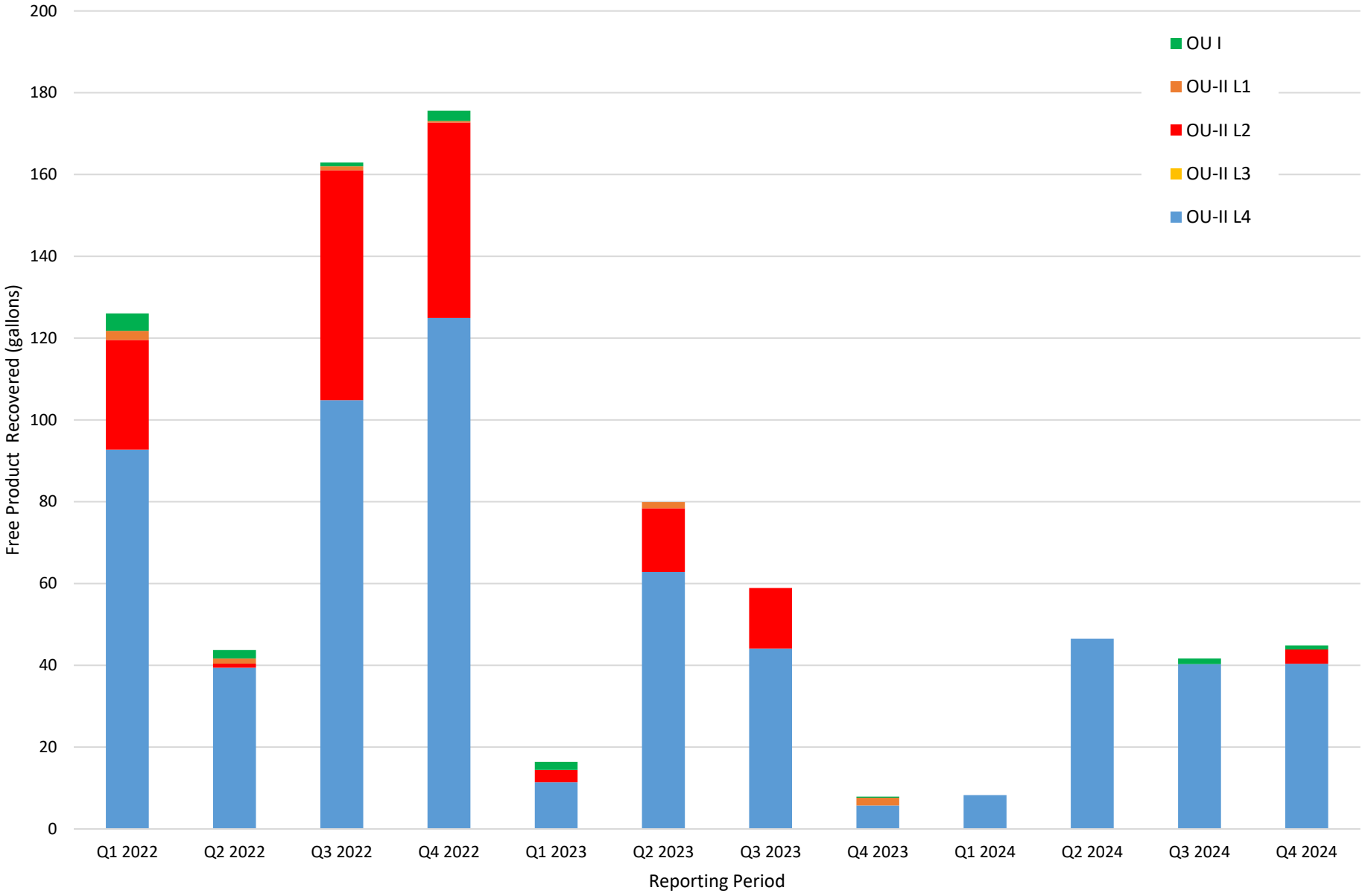


Figure 9
NYSDEC Site #360010
Harmon Yard Waste Water Area
NAPL Recovered by Reporting Period



Attachment A

Declaration of Covenants and Restrictions with Property Survey Map

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 12th day of JUNE 2012, by Midtown Trackage Ventures, LLC, ("Midtown") a limited liability company organized and existing under the laws of the State of Delaware, and having an office for the transaction of business at 551 5th Avenue, 34th Floor, New York, New York 10176, and its lessee Metropolitan Transportation Authority ("MTA") a New York State public benefit corporation, acting by and for its subsidiary, Metro-North Commuter Railroad Company ("Metro-North") and having an office at 347 Madison Avenue, 7th Floor, New York, New York 10017.

WHEREAS, Harmon Railroad Yard Site Number 360010, Operable Units 1 and 2, is the subject of a Stipulation of Discontinuance, Index Number 383-89 (recorded by the Albany County Clerk's Office on August 10, 1994), as part of the New York State Department of Environmental Conservation's (the "Department's") State Superfund Program, namely portions of that parcel of real property located on 1 Croton Point Avenue in the Town of Croton-on-Hudson, County of Westchester, State of New York, being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Property is: (a) part of lands conveyed by American Premier Underwriters Inc. to Midtown, by deed dated December 12, 2006 and recorded in the Westchester County Clerk's Office on April 4, 2007 as Instrument Number 470850158; (b) part of the premises that is subject to that certain long-term lease (terminating in 2274) titled, Amended and Restated Agreement of Lease dated April 6, 1994 with the MTA as lessee (as amended from time to time, the "MTA Lease"); and (c) operated by Metro-North (an affiliate of MTA) as a railroad yard; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, Midtown, MTA and Metro-North for themselves and their successors and/or assigns, covenant that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the

provisions of the Site Management Plan ("SMP"), there shall be no construction, use or occupancy of the Property by Midtown, MTA or Metro-North (individually or collectively or acting through agents) that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or the monitoring well network, or which results in unacceptable human exposure to contaminated soils.

Third, none of Midtown, MTA or Metro-North (individually or collectively or acting through agents) shall disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls or the monitoring well network required for the Remedy, which are described in the SMP, without first obtaining a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, none of Midtown, MTA or Metro-North (individually or collectively or acting through agents) shall use, or permit the use of, the Property for purposes other than for the current land use (as a closed lagoon and above grade material storage facility/parking area for equipment used by Metro-North Railroad) without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, none of Midtown, MTA or Metro-North (individually or collectively or acting through agents) shall use, or permit the use of, the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency.

Sixth, (a) MTA and Metro-North agree to be responsible for providing periodic certifications, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired for the term of the Midtown lease with MTA and (h) Midtown agrees to require any subsequent lessees and operators to provide such periodic certifications.

Seventh, (a) MTA, Metro-North and Midtown shall continue in full force and effect any institutional and engineering controls required for the Remedy and maintain such controls, unless Midtown, MTA or Metro-North first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP (prepared by Day Engineering, P.C., dated December 13, 2011), which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency and (b) Midtown agrees to require any subsequent lessees and operators not to interfere with the institutional and engineering controls required for the Remedy.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and

its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Stipulation of Discontinuance, Index Number 383-89, requires to be recorded, and the owner and its successors and assigns hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned have executed this instrument the date first written below.

Midtown TDR Ventures LLC

By: _____
Andrew S. Penson

Authorized Representative

Date: 5/30/12

STATE OF NEW YORK)

) s.s.:

COUNTY OF New York

On the 30 day of May, in the year 201_, before me, the undersigned, personally appeared Andrew Penson, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public State of New York

CARMENCELIA TURINO-RIVERA
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01TU6141365
Qualified in Bronx County
Commission Expires February 21, 2014

IN WITNESS WHEREOF, the parties have set their hands on the day and year first above written.

Metropolitan Transportation Authority

By: _____
Jeffery B. Rosen
Director of Real Estate

STATE OF NEW YORK]

COUNTY OF NEW YORK] ss:

On the 14th day of MAY, 2012, before me, the undersigned a notary public in and for the State of New York personally appeared Jeffrey B. Rosen, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public

ODETTE FORESTIER
Notary Public, State of New York
No. 01FO6167398
Qualified in New York County
Commission Expires September 16, 2015

IN WITNESS WHEREOF, the parties have set their hands on the day and year first above written.

Metro-North Commuter Railroad Company

By: _____
Seth J. Cummins
Vice President and General Counsel

STATE OF NEW YORK]

COUNTY OF NEW YORK] ss:

On the 22nd day of May, 2012, before me, the undersigned a notary public in and for the State of New York personally appeared Seth J. Cummins personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public

Karen L Tinko
Notary Public State of New York
Westchester County
Lic. #02TI4946811
Comm. Exp. Feb. 6, 2015

Appendix A

TERRY BERGENDORFF COLLINS

Professional Land Surveyor
N.Y.S Lic. No. 49691
52 Starr Ridge Road ▪ Brewster, New York 10509

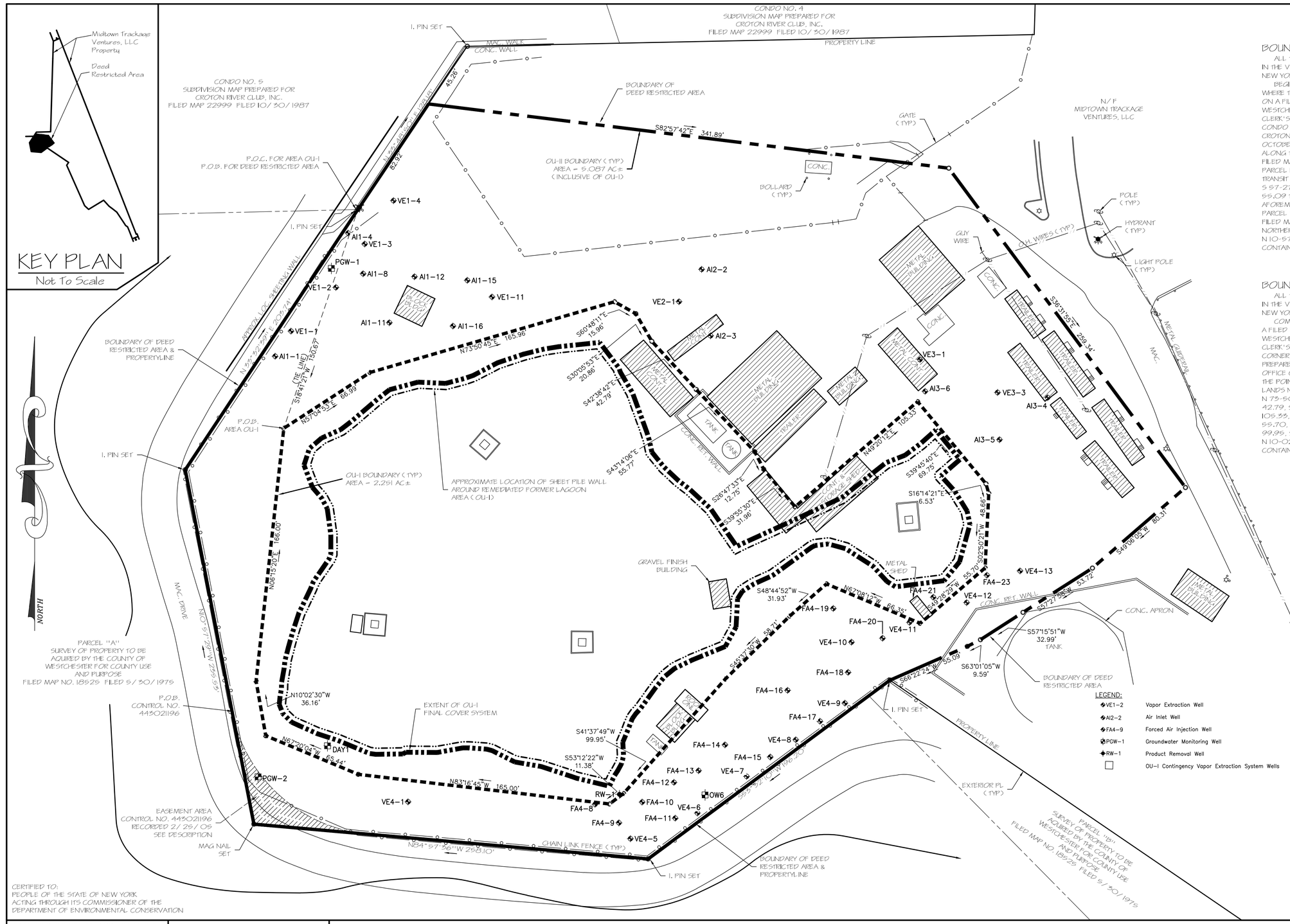
Telephone: (845) 279-4261 Fax: (845) 279-6838

Successor to Robert H. Bergendorff, James C. Edgen, William Alexander
www.terrybergendorffcollins.com

Metropolitan Transit Authority
Proposed Easement Area OU-1
July 20, 2011
Job No. Croton Harmon
G:\Deeds\Day Engineering\OU-1 Parcel

All that certain plot, piece or parcel of land situate, lying and being in the Village of Croton-on-Hudson, County of Westchester and State of New York and being more particularly described as follows:

Beginning at the northwesterly corner of the parcel herein described and which point is distant S 18-41-21 W 150.67 from the northeasterly corner of Parcel "A" as shown on a filed map entitled "Survey of Property to be Acquired by the County of Westchester for County Use and Purpose" filed in the Westchester County Clerk's Office May 30, 1975 as filed map no. 18525 and the southeasterly corner of Condo No. 5 as shown on a filed map entitled "Subdivision Map prepared for Croton River Club, Inc" filed in the Westchester County Clerk's Office October 30, 1987 as filed map no. 22999; thence from said point of beginning through lands now or formerly Metropolitan Transit Authority N 57-04-53 E 66.99, N 73-50-45 E 165.96, S 60-48-11 E 15.96, S 30-05-53 E 20.86, S 42-38-42 E 42.79, S 43-14-06 E 55.77, S 26-47-33 E 12.75, S 39-55-30 E 31.96, N 49-20-12 E 105.33, S 39-45-40 E 69.75, S 16-14-21 E 6.53, S 2-50-21 W 48.66, S 49-28-29 W 55.70, N 67-08-12 W 66.35, S 48-44-52 W 31.93, S 45-37-30 W 58.71, S 41-37-49 W 99.95, S 53-12-22 W 11.38, N 83-16-45 W 165.00, N 67-20-04 W 65.44, N 10-02-30 W 36.16 and N 6-15-20 E 166.00 to the point and place of beginning. Containing within said bounds 2.251 acres more or less.



BOUNDARY OF DEED RESTRICTED AREA AND AREA OU-II:

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE VILLAGE OF CROTON-ON-HUDSON, COUNTY OF WESTCHESTER AND STATE OF NEW YORK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WESTERLY LINE OF THE PARCEL HEREIN DESCRIBED WHERE THE SAME IS INTERSECTED BY THE NORTHERLY LINE OF PARCEL "A" AS SHOWN ON A FILED MAP ENTITLED "SURVEY OF PROPERTY TO BE ACQUIRED BY THE COUNTY OF WESTCHESTER FOR COUNTY USE AND PURPOSE" FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE MAY 30, 1975 AS FILED MAP NO. 18525 AND THE SOUTHERLY LINE OF CONDO NO. 5 AS SHOWN ON A FILED MAP ENTITLED "SUBDIVISION MAP PREPARED FOR CROTON RIVER CLUB, INC." FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE OCTOBER 30, 1987 AS FILED MAP NO. 22999; THENCE FROM SAID POINT OF BEGINNING ALONG THE EASTERLY LINE OF CONDO NO. 5 AS SHOWN ON THE AFOREMENTIONED FILED MAP NO. 22999 N 55-48-50 E 82.92 TO THE NORTHWESTERLY CORNER OF THE PARCEL HEREIN DESCRIBED; THENCE THROUGH LANDS NOW OR FORMERLY METROPOLITAN TRANSIT AUTHORITY S 82-57-42 E 341.89, S 36-31-55 E 259.34, S 49-08-05 W 80.31, S 57-27-58 W 55.72, S 57-15-51 W 32.99, S 63-01-05 W 9.59 AND S 66-22-24 W 55.09 TO A POINT ON THE NORTHERLY LINE OF PARCEL "B" AS SHOWN ON THE AFOREMENTIONED FILED MAP NO. 18525; THENCE PARTLY ALONG THE NORTHERLY LINE OF PARCEL "B" AND PARTLY ALONG THE NORTHERLY LINE OF PARCEL "A" AS SHOWN ON SAID FILED MAP NO. 18525 S 53-32-10 W 196.20 TO A POINT; THENCE CONTINUING ALONG THE NORTHERLY AND EASTERLY LINES, RESPECTIVELY, OF PARCEL "A" N 84-57-39 W 258.10, N 10-57-29 W 255.55 AND N 33-32-39 E 203.74 TO THE POINT AND PLACE OF BEGINNING. CONTAINING WITHIN SAID BOUNDS 5.087 ACRES MORE OR LESS.

BOUNDARY OF AREA OU-I

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE VILLAGE OF CROTON-ON-HUDSON, COUNTY OF WESTCHESTER AND STATE OF NEW YORK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING FROM THE NORTHEASTERLY CORNER OF PARCEL "A" AS SHOWN ON A FILED MAP ENTITLED "SURVEY OF PROPERTY TO BE ACQUIRED BY THE COUNTY OF WESTCHESTER FOR COUNTY USE AND PURPOSE" FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE MAY 30, 1975 AS FILED MAP NO. 18525 AND THE SOUTHEASTERLY CORNER OF CONDO NO. 5 AS SHOWN ON A FILED MAP ENTITLED "SUBDIVISION MAP PREPARED FOR CROTON RIVER CLUB, INC." FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE OCTOBER 30 1987 AS FILED MAP NO 22999, THENCE S 18-41-21 W 150.67 TO THE POINT AND PLACE OF BEGINNING; THENCE FROM SAID POINT OF BEGINNING THROUGH LANDS NOW OR FORMERLY METROPOLITAN TRANSIT AUTHORITY N 57-04-53 E 66.99, N 73-50-45 E 165.96, S 60-48-11 E 15.96, S 30-05-53 E 20.86, S 42-38-42 E 42.79, S 43-14-06 E 55.77, S 26-47-33 E 12.75, S 39-55-30 E 31.96, N 49-20-12 E 105.33, S 39-45-40 E 69.75, S 16-14-21 E 6.53, S 2-50-21 W 48.66, S49-28-29 W 55.70, N67-08-12 W 66.35, S48-44-52 W 31.93, S 45-57-30 W 58.71, S 41-37-49 W 99.95, S53-12-22 W 11.38, N 83-16-45 W 165.00, N 67-20-04 W 69.44, N 10-02-30 W 36.16 AND N 6-19-20 E 166.00 TO THE POINT AND PLACE OF BEGINNING. CONTAINING WITHIN SAID BOUNDS 2.291 ACRES MORE OR LESS.

CONTROL NO. 443021196

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING LOCATED IN THE VILLAGE OF CROTON-ON-HUDSON, TOWN OF CORTLANDT, COUNTY OF WESTCHESTER, STATE OF NEW YORK AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE DIVISION LINE BETWEEN PROPERTY NOW OR FORMERLY METROPOLITAN TRANSPORTATION AUTHORITY ON THE EAST AND PROPERTY NOW OR FORMERLY COUNTY OF WESTCHESTER ON THE WEST, SAID POINT BEING DISTANT 364.42 FEET SOUTHERLY AS MEASURED ON THE FOLLOWING COURSES AND DISTANCES: S 35°52'56" W 205.39 FEET AND S 11°00'42" E 161.05 FEET TO A POINT OF BEGINNING, SAID LATTER POINT BEING THE SOUTHEAST CORNER OF CONDO NO. 5 AS SHOWN ON A MAP ENTITLED "SUBDIVISION MAP PREPARED FOR CROTON RIVER CLUB INC." DATED MAR. 17, 1987 AND FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE (DIVISION OF LAND RECORDS) ON OCT. 30, 1987 AS MAP NO. 22999; RUNNING THENCE FROM SAID POINT OF BEGINNING ALONG THE PERIMETER OF THE HEREIN DESCRIBED EASEMENT AREA ON A CURVE TO THE LEFT HAVING A RADIUS OF 100.00 FEET, AN ARC LENGTH OF 128.80 FEET TO A POINT , THENCE N 84° 48' 28" W 79.08 FEET AND N 11° 00' 42" W 79.08 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 1,068 SQ. FT., MORE OR LESS.

NOTE:
THE EASEMENT DESCRIPTION AS RECORDED IN CONTROL NO. 443021196 IS BASED ON A DIFFERENT BEARING SYSTEM THAN THE SURVEY, WHICH WAS CREATED TO MATCH THE BEARING SYSTEM AS SHOWN ON FILED MAP NO. 18525

VILLAGE OF CROTON-ON-HUDSON
TAX MAP DESIGNATION:
78.20-2-P.O. 2
WESTCHESTER COUNTY, NY
TAX MAP DESIGNATION:
SHEET 153, BLOCK 11887

CERTIFIED TO:
PEOPLE OF THE STATE OF NEW YORK
ACTING THROUGH ITS COMMISSIONER OF THE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CERTIFICATIONS INDICATED HEREON SIGNIFY THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC. CERTIFICATIONS SHALL RUN ONLY TO THE PERSON FOR WHOM THIS SURVEY WAS PREPARED AND ON HIS BEHALF TO THE TITLE CO. AND LENDING INSTITUTION LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

TERRY BERGENDORFF COLLINS
52 STARR RIDGE ROAD
BREWSTER, NEW YORK 10509
N.Y.S. LICENSE NO. 49691

SURVEYORS SEAL

N.Y.S. LICENSE NO. 49691

SURVEY OF PROPERTY
PREPARED FOR
METRO-NORTH RAILROAD
SITUATE IN
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT WESTCHESTER CO., N.Y.
SCALE: 1" = 30' JUNE 28, 2011

COPYRIGHT © 2011 TERRY BERGENDORFF COLLINS, ALL RIGHTS RESERVED dm

GRAPHIC SCALE
30'/9.14M 0 15'/4.57M 30'/9.14M 60'/19.29M 120'/36.58M
1 inch = 30 ft.
1 inch = 9.14 m

REVISIONS		
DATE	DESCRIPTION	BY:
7/7/11	ADD I. PIN SET	DM
10/6/11	REV. PER ENG.	DM
11/4/11	REV. PER ENG.	DM
12/5/11	REV. PER DEC	DM

THE ALTERATION OF SURVEY MAPS BY ANYONE OTHER THAN THE ORIGINAL PREPARER IS MISLEADING, CONFUSING AND NOT IN THE GENERAL WELFARE AND BENEFIT OF THE PUBLIC. LICENSED LAND SURVEYORS SHALL NOT ALTER SURVEY MAPS, SURVEY PLANS OR SURVEY PLATS PREPARED BY OTHERS. UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION # 7209 OF THE NEW YORK STATE EDUCATION LAW. THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS, IF ANY EXIST OR ARE SHOWN HEREON, ARE NOT CERTIFIED. ALL CERTIFICATIONS HEREON ARE VALID FOR THIS MAP AND COPIES THEREOF ONLY IF SAID MAP OR COPIES BEAR THE IMPRESSED SEAL OF THE SURVEYOR WHOSE SIGNATURE APPEARS HEREON. THIS MAP MAY NOT BE USED IN CONNECTION WITH A "SURVEY AFFIDAVIT" OR SIMILAR DOCUMENT, STATEMENT OR MECHANISM TO OBTAIN TITLE INSURANCE FOR ANY SUBSEQUENT OR FUTURE GRANTEES.

JOB NO. CROTON HARMON (G:\DRAWINGS\PROJECTS\DAY ENGINEERING\SURVEY_12.5.11.DWG)

Attachment B

Correspondence received from NYSDEC in Report Period

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E
625 Broadway, 12th Floor, Albany, NY 12233-7017
P: (518) 402-9813 I F: (518) 402-9819
www.dec.ny.gov

March 8, 2022

Sara M. Gianazza, Esq.
Senior Manager
Department of Environmental Compliance and Services
Metro-North Railroad
420 Lexington Avenue
New York, New York 10170

Re: August 2021 Corrective Measures Work Plan Response
Operational Unit II – L4 NAPL Area
Harmon Railroad Yard (Site No. 360010)
Croton-on-Hudson, New York

Dear Sara Gianazza,

The Department has reviewed the above-referenced August 2021 Corrective Measures Work Plan (CMWP) for the L4 non-aqueous phase liquid (NAPL) Area, prepared on behalf of Metro-North Railroad (MNRR) by Day Engineering, P.C. (Day). As a result, the Department has the following comments:

- The CMWP relies upon certain interpretations regarding groundwater flow and associated NAPL migration potential. For example, Section 2.4, Conceptual Site Model, indicates that NAPL present in the vicinity of monitoring wells OUII-A, OUII-B, and OUII-D is unlikely to migrate further southeast against the groundwater gradient. Additional information and clarification is required to argue these claims.

- The Department requires clarification on the groundwater figures provided in Appendix C including the below:
    - The CWMP does not incorporate the results of a resurvey of existing monitoring wells, as discussed with Department agents during the July 13, 2021 site meeting. The groundwater contour maps and hydrographs in the CWMP should be updated as needed to reflect the results of a resurvey that verifies the coordinates and elevations, relative to a uniform datum, of existing, accessible onsite and offsite wells associated with the L4 NAPL Area.

- Any remaining concerns regarding the meaning and/or validity of groundwater elevation/potentiometric elevation measurements associated with specific wells (e.g., as identified for FA4-13, FA4-17, VE4-5, VE4-11, OUII-E in the Q4 2020 Site Management Plan Status Report) should be addressed as part of this effort.
- The method, mathematical or otherwise, used in determining the contours produced on each groundwater contour map should be identified.
- Groundwater contour maps and hydrographs should indicate whether groundwater elevations have been corrected to account for NAPL thicknesses, where encountered, and the method of correction, if any.
- Groundwater contours should be removed from within the OUI footprint unless supported by gauging data from within that footprint. For example, the first several maps in Appendix C do not show any gauging data within the OUI footprint, and therefore the contours within OUI are not well supported.
- For maps with contours showing flow traversing the former lagoon at elevations that would be obstructed by the sheeting wall, associated flow arrows should be removed, as they would not be expected to accurately represent the actual water table flow direction in the vicinity of the sheeting. For example, arrows on the May 2017 contour map suggest that groundwater is flowing into and across the limits of OUI at Elevations 5 to 6 feet AMSL. This should be physically impossible, if, as Section 2.4 indicates, the sheet pile wall extends from ground surface to 3 feet AMSL, and functions as a barrier to migration of fluids.
- Any wells with unknown screened intervals, or screened intervals that may not be suitable for intercepting NAPL, should be identified on the maps.
- For groundwater contour maps dated on November 2016 and May 2021 (Appendix C), monitoring wells SP-North and WB-9 are inconsistently illustrated. The Department requests that these figures are reviewed and revised. Any revisions should also include appropriate groundwater elevations, where available.

- NAPL above and/or below the water table can sometimes move against prevailing groundwater flow gradients when present at significant thicknesses, it is unclear to the Department if the proposed passive skimming approach will produce a substantial capture radius at each recovery well. Therefore, additional information is requested to demonstrate the claimed prevailing gradients and/or induced gradients will be sufficient to preclude further offsite NAPL migration.

- The CMWP relies upon certain interpretations regarding NAPL extent and distribution. For example, Section 2.4, Conceptual Site Model, appears to make suggestions about NAPL migration, or lack thereof, based on the lack of NAPL in monitoring well OUII-E and

temporary (1997) monitoring wells OS-G and OS-H. Additional information and clarification is required to argue the meaning of, and basis for, these suggestions.

- Aside from VE4-1, there appears to be a lack of of NAPL gauging and distribution data, for the L4 NAPL Area and adjacent offsite area, extending between the vicinity of monitoring wells FA4-8, VE4-5, and OUII-E, DAY-1, and PGW-2. Given the aforementioned uncertainties in groundwater flow direction, and the potential long-term changes that may have occurred during the period following OUI closure, there is a concern that the delineation proposed in Figure 6 may leave significant spatial data gaps (on the order of 100 feet). To be consistent with the spacing of the existing OUII-series wells and the proposed new delineation wells, and to create a more uniform delineation along the yard boundary, the Department requires that two additional wells be installed along the southern boundary in the general vicinity of VE4-1. Please revise Figure 6 to include these additional locations.

- In order to justify the absence of a delineation or recovery well between OUII-B and OUII-C, and between OUII-C and OUII-D (as presented on Figure 7), the CWMP should include a presentation and/or references to estimated NAPL thicknesses in the vicinity of those nominally 50-foot data gaps. Well data utilized in making such estimates should be presented/discussed.

- Section 3.5 indicates that additional corrective measures, such as a NAPL collection trench, may be warranted if a sufficient quantity of NAPL cannot be removed in the OUII offsite monitoring wells. A specific threshold should be proposed to determine when to implement additional corrective measures to address offsite NAPL migration. This proposed threshold must be consistent with the OUII ROD-based remediation goal of preventing further offsite NAPL migration. To this end, a condition of “no detectable NAPL” and/or establishing hydraulic control via a documented inward gradient may be a suitable threshold.

- Based on the hydrograph presented for monitoring well OUII-F, NAPL may be present depths beneath the former lagoon and could migrate beneath the bottom of the OUI sheeting wall (at Elevation 3 feet AMSL) towards the vicinity of PGW-2 at certain times. If so, this could remain an ongoing source of NAPL. The Department requires that an evaluation of this condition be made and discussed in the final reporting.

- Section 8.5 of the HASP includes a paragraph describing “A CAMP will be implemented in accordance with Appendix 1A of the DER 10-guidance document”. A full CAMP should be included in the CMWP and executed whenever ground intrusive work is performed.

The CAMP should be included in a stand-alone Appendix and reference in the body of the CWMP where appropriate. Readings collected should be provided on a weekly basis with all exceedances reported to the Department and NYSDOH within 24 hours. In addition, all reported exceedances will cite the reason and all subsequent corrective measures.

The Department requires a response and/or formal CWMP revisions for the applicable items above within 45 days of receipt of this letter. In addition, the Department if available for a conference call to discuss the above requirements. If you have any comments, questions, or concerns, please do not hesitate to contact me at 518-402-5987 or e-mail at brianna.scharf@dec.ny.gov.

Sincerely,

Brianna Scharf
Project Manager

Cc:
Sarah Saucier, NYSDEC
Johnathan Robinson, NYSDOH
Justin King, TRC
Raymond Kampff, Day Engineering

RE: Site No. 360010 Harmon Railroad Yard Corrective Measures WorkPlan comments

Reply | Reply All | Forward | ...

Sara Gianazza
To Scharf, Brianna L (DEC)
Cc Saucier, Sarah K (DEC); King, Justin; Kranes, Nathan; Robinson, Johnathan M (HEALTH); Ray Kampff; Heather McLennan; Sammon, Clare

Tue 4/19/2022 3:29 PM

Response to NYSDEC Comments Harmon Off-Site NAPL - 4-3-2022.docx
27 KB

Response Attachments 2022-04-04.pdf
2 MB

Hello Brianna,

Please find attached MNR's response to NYDEC's comments/questions presented in the March 8, 2022 letter regarding MNR's Corrective Measures Work Plan for Harmon OUII NAPL Area L4.

Please let me know if you have any further comments.

Thank you,
Sara

Sara M. Gianazza, Esq.
Senior Manager
Environmental Compliance and Services

Metro-North Railroad
525 North Broadway, 2nd Fl., White Plains, NY 10603
Phone: 914-461-0591 **Mobile:** 917-743-6126
Email: Gianazza@mnr.org

MTA Metro-North Railroad

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Tuesday, March 8, 2022 1:19 PM
To: Gianazza, Sara <Gianazza@mnr.org>
Cc: Saucier, Sarah K (DEC) <Sarah.Saucier@dec.ny.gov>; King, Justin <JKing@trccompanies.com>; Kranes, Nathan <NKranes@trccompanies.com>; Robinson, Johnathan M (HEALTH) <Johnathan.Robinson@health.ny.gov>
Subject: Site No. 360010 Harmon Railroad Yard Corrective Measures WorkPlan comments

Hi Sara,

I apologize that this is so delayed, please find attached the departments comment on the corrective measures work plan.

Please let me know if you have any questions or concerns.

Thanks,
Brianna

1. The CMWP relies upon certain interpretations regarding groundwater flow and associated NAPL migration potential. For example, Section 2.4, Conceptual Site Model, indicates that NAPL present in the vicinity of monitoring wells OUII-A, OUII-B, and OUII-D is unlikely to migrate further southeast against the groundwater gradient. Additional information and clarification is required to argue these claims. **As stated in the CMWP, the Conceptual Model is based on available information and an interpretation of that information. As additional information is obtained (i.e., as discussed elsewhere in this submittal) the Conceptual Model will be revised if necessary.**

2. The Department requires clarification on the groundwater figures provided in Appendix C including the below:

    - The CMWP does not incorporate the results of a resurvey of existing monitoring wells, as discussed with Department agents during the July 13, 2021 site meeting. The groundwater contour maps and hydrographs in the CMWP should be updated as needed to reflect the results of a resurvey that verifies the coordinates and elevations, relative to a uniform datum, of existing, accessible onsite and offsite wells associated with the L4 NAPL Area. **The resurvey has not yet been completed. This work was put on hold for various reasons including awaiting the NYSDEC response to the CMWP, which was submitted in August 2021. This work is currently being scheduled and will be done in conjunction with the cleaning/redevelopment of select monitoring wells. The information collected will be used to update and revise the CMWP as necessary.**

    - Any remaining concerns regarding the meaning and/or validity of groundwater elevation/potentiometric elevation measurements associated with specific wells (e.g., as identified for FA4-13, FA4-17, VE4-5, VE4-11, OUII-E in the Q4 2020 Site Management Plan Status Report) should be addressed as part of this effort. **Agreed, that is a goal of the work to be completed in conjunction with the resurvey of monitoring wells.**

    - The method, mathematical or otherwise, used in determining the contours produced on each groundwater contour map should be identified. **The groundwater contours were using the Natural Neighbor interpolation function of ArcGIS Spatial Analyst software from depth to water/NAPL measurements in the OUI-OUII area, and modified where necessary based on known site conditions.**

- Groundwater contour maps and hydrographs should indicate whether groundwater elevations have been corrected to account for NAPL thicknesses, where encountered, and the method of correction, if any. **Where applicable, the groundwater elevations were corrected for NAPL. A note can be added to future maps, if applicable.**

- Groundwater contours should be removed from within the OUI footprint unless supported by gauging data from within that footprint. For example, the first several maps in Appendix C do not show any gauging data within the OUI footprint, and therefore the contours within OUI are not well supported. **Only groundwater contour maps that include gauging data for monitoring wells within OUI will be presented in the revised version of the CMWP. [Note: Although not shown on the site plans presented in the CMWP, adjacent piezometers, designated P-1 through P-10 were installed inside and outside the sheet pile wall during the remediation process (see the attached Figure A). [Note: Piezometer P-6 is blocked at around 5 ft. below ground surface and cannot be repaired.] The groundwater elevations in these piezometers will be included if static water levels were measured during the monitoring events.**

- For maps with contours showing flow traversing the former lagoon at elevations that would be obstructed by the sheeting wall, associated flow arrows should be removed, as they would not be expected to accurately represent the actual water table flow direction in the vicinity of the sheeting. For example, arrows on the May 2017 contour map suggest that groundwater is flowing into and across the limits of OUI at Elevations 5 to 6 feet AMSL. This should be physically impossible, if, as Section 2.4 indicates, the sheet pile wall extends from ground surface to 3 feet AMSL, and functions as a barrier to migration of fluids. **Agreed flow across the sheet pile should be impeded, but not necessarily eliminated as the sheet pile wall is not impermeable, and is not installed into a subsurface material that would act as a confining layer.**

- Any wells with unknown screened intervals, or screened intervals that may not be suitable for intercepting NAPL, should be identified on the maps. **The well screens/sand packs will be evaluated and locations that are suspected to be too deep to collect NAPL (if any) will be identified.**

- For groundwater contour maps dated on November 2016 and May 2021 (Appendix C), monitoring wells SP-North and WB-9 are inconsistently illustrated. The Department requests that these figures are reviewed and revised. Any

revisions should also include appropriate groundwater elevations, where available. **The maps will be updated to include SP-North and WB-9.**

3. NAPL above and/or below the water table can sometimes move against prevailing groundwater flow gradients when present at significant thicknesses, it is unclear to the Department if the proposed passive skimming approach will produce a substantial capture radius at each recovery well. Therefore, additional information is requested to demonstrate the claimed prevailing gradients and/or induced gradients will be sufficient to preclude further offsite NAPL migration. **It is agreed that depending on viscosity, NAPL can move against the hydraulic gradient for relatively short distances if there is a significant thickness of NAPL. However, currently there is no evidence to support that this is the case at this site. Further, the available data suggests that NAPL has not migrated beyond the current off-site monitoring wells. Monitoring of these locations during the remediation should be sufficient to assess the effectiveness of the remediation. Should NAPL thicknesses increase during remediation, additional monitoring wells positioned further off-site (e.g., south of the access road in the direction of the closed Westchester Landfill) may be required.**

4. The CMWP relies upon certain interpretations regarding NAPL extent and distribution. For example, Section 2.4, Conceptual Site Model, appears to make suggestions about NAPL migration, or lack thereof, based on the lack of NAPL in monitoring well OUII-E and temporary (1997) monitoring wells OS-G and OS-H. Additional information and clarification is required to argue the meaning of, and basis for, these suggestions. **It is unclear what additional information is required. NAPL has not been detected in off-site monitoring well OUII-E since measurements in this well began more than 5 years ago. The screened interval of this well does not vary significantly from the two nearest off-site monitoring wells, indicating that if NAPL was present in this location it would be identified in monitoring well OUII-E.**

5. Aside from VE4-1, there appears to be a lack of NAPL gauging and distribution data, for the L4 NAPL Area and adjacent offsite area, extending between the vicinity of monitoring wells FA4-8, VE4-5, and OUII-E, DAY-1, and PGW-2. Given the aforementioned uncertainties in groundwater flow direction, and the potential long-term changes that may have occurred during the period following OUI closure, there is a concern that the delineation proposed in Figure 6 may leave significant spatial data gaps (on the order of 100 feet). To be consistent with the spacing of the existing OUII-series wells and the proposed new delineation wells, and to create a more uniform delineation along the yard boundary, the Department requires that two additional wells be installed along the

southern boundary in the general vicinity of VE4-1. Please revise Figure 6 to include these additional locations. **Figure 8 and Figure 10 from the Site Management Plan (SMP) for the Site are provided as Attachment A. As shown on Figure 8 ten wells were previously installed in proximity of VE4-1 (i.e., designated FA4-1 through FA4-7 and VE4-2 through VE4-4). These wells were monitored for NAPL since their installation in 2002 and these wells (i.e., in addition to 22 other wells in the OUII area) were decommissioned in July 2011. The note #4 on Figure 10 of the SMP provides a complete list of wells closed in July 2011). Thus, the area between monitoring wells FA4-8, VE4-5, OUII-E and DAY-1 is not considered a data gap and installation of new monitoring wells in this area is not required.**

6. In order to justify the absence of a delineation or recovery well between OUII-B and OUIIC, and between OUII-C and OUII-D (as presented on Figure 7), the CWMP should include a presentation and/or references to estimated NAPL thicknesses in the vicinity of those nominally 50-foot data gaps. Well data utilized in making such estimates should be presented/discussed. **As shown on the attached Figure 7 revision, two additional delineation/recovery wells (i.e., 4-inch diameter wells) will be installed between OIII-B and OIII-C and between OUII-C and OUII-D. Depending on the amount of NAPL identified (if any), NAPL removal operations will be implemented in these wells.**

7. Section 3.5 indicates that additional corrective measures, such as a NAPL collection trench, may be warranted if a sufficient quantity of NAPL cannot be removed in the OUII offsite monitoring wells. A specific threshold should be proposed to determine when to implement additional corrective measures to address offsite NAPL migration. This proposed threshold must be consistent with the OUII ROD-based remediation goal of preventing further offsite NAPL migration. To this end, a condition of "no detectable NAPL" and/or establishing hydraulic control via a documented inward gradient may be a suitable threshold. **The remedial goals for the site presented in the ROD state: *"Prevent further offsite migration of OUII NAPL; remove OUII NAPL to the extent practicable; and continue to prevent direct contact with subsurface OUII NAPL in the vicinity of the former lagoon"* As stated in the Section 2.1 of the CMWP, NAPL was identified in monitoring wells (i.e., designated OS-G and OS-H) installed at off-site locations to the southeast of NAPL area L4 and evaluated for the RI study (refer to Figure 3 of the CMWP) in the vicinity of monitoring wells OUII-A, OUII-B, OUII-C, OUII-D and OUII-E. Thus, the findings presented to date do not indicate further off-site migration of NAPL in this area. Further, the NAPL thicknesses presented on the hydrographs for monitoring wells OUII-A, OUII-B, and OUII-D (Refer to Appendix B of the CMWP) appear to indicate a downward trend between 2016 and 2021 (i.e., with the exception of two reported detections of free**

product in well OUII-C that may be due to measurement error, NAPL was not encountered in monitoring wells OUII-C or OUII-E during this time period). Thus, the available data does not indicate further off-site migration of NAPL toward the southeast, than was documented at the time of the OUII ROD.

Because the corrective measures proposed for the OUII-F and PGW-2 area rely on an iterative approach (i.e., further delineation followed, as necessary, by the installation of NAPL recovery wells) a specific threshold for additional corrective measures in this area is not feasible until the delineation work has been completed.

Specific to the proposed recovery wells in the vicinity of monitoring wells OUII-A, OUII-B, OUII-C and OUII-D, it is proposed that: if following installation, startup, and the completion of NAPL removal events in the recovery wells over a period of two years, NAPL is encountered in monitoring wells OUII-A, OUII-B, OUII-C, OUII-D and OUII-E during the subsequent year (i.e., 52 weekly monitoring events) in excess of de minimis levels (e.g., 0.1 ft. or less in thickness), additional corrective measures will be proposed and subsequently implemented.

8. Based on the hydrograph presented for monitoring well OUII-F, NAPL may be present depths beneath the former lagoon and could migrate beneath the bottom of the OUI sheeting wall (at Elevation 3 feet AMSL) towards the vicinity of PGW-2 at certain times. If so, this could remain an ongoing source of NAPL. The Department requires that an evaluation of this condition be made and discussed in the final reporting. The elevation of the bottom of the sheeting wall identified in the CMWP (i.e., around elevation 3 ft. AMSL) has to be verified from as-built drawings, which were not available at the time of the CMWP preparation (i.e., DAY does not have a copy of these drawings and, to date, MNR has not been able to locate them). It is requested that the NYSDEC provide a copy of the as-built drawings (if available) for the construction of the sheeting wall, which are identified as Contract Drawings C-6 and C-8 in the document titled, Operable Unit I Closure Report, Volume II, Harmon Railroad Yard, Croton-on Hudson, New York, dated July 1999, revised May 2000, prepared by Environmental Resources Management of New York, NY (ERM).

   Pursuant to identifying trends in the elevations of the groundwater surface in proximity to the southwest of OUI, hydrographs were prepared and reviewed for monitoring locations within the OUI sheeting wall (i.e., vault wells V-1 through V-4) and piezometers located in pairs along the perimeter of the sheeting wall (i.e., P-1/P-2, P-3/P-4, P-5, P-7/P-8 and P-9/P-10), which were monitored quarterly between 2015 and 2021. [Note:

Piezometer P-6 is plugged and has not been monitored.] In addition, hydrographs were prepared and reviewed for monitoring wells located in the vicinity of OUII-F, including PGW-2, DAY-1, and VE4-1. These hydrographs are presented, along with a Site Plan depicting the well locations, in Attachment B, and relevant findings are discussed below.

- Groundwater surface elevations measured in vault well V2 (i.e., located in the southeastern portion of OUI) appear to be consistently above 3 ft. AMSL. [Note the groundwater surface elevations measured in this well between 2015 and 2021 average 3.69 ft. AMSL, and range between 3.20 ft and 7.88 ft AMSL]. Groundwater surface elevations measured in vault well V3 (i.e., located in the southwestern portion of OUI) appear to be generally higher than 3 ft. AMSL. However, groundwater elevations in vault well V3 appear to drop below elevation 3 ft. AMSL on a seasonal basis (i.e., generally during the fall months, as measured in 2015, 2016 and 2017). [Note the groundwater surface elevations measured in this well between 2015 and 2021 average 3.37 ft. AMSL, and range between 1.03 ft. and 4.91 ft. AMSL].

- Groundwater surface elevations in proximity to the sheeting wall and in the vicinity of PGW-2 (i.e., represented by hydrographs in piezometers P3, P4, P5, and in monitoring well DAY 1) appear to remain above the elevation of 3 ft. AMSL (except for an anomalous, and possibly erroneous, reading from piezometer P3 made in November 2015). [Note: These wells are measured on a quarterly basis, and thus the data may not be representative of the seasonal high and low groundwater surface elevations.]

- Groundwater surface elevations in monitoring wells VE4-1 and PGW-2, located on the slope between the sheeting wall and the roadway, appear generally higher than 3 ft. AMSL. However, groundwater elevations in monitoring well PGW-2 appear to drop below elevation 3 ft. AMSL on a seasonal basis (i.e., generally during the fall months, as measured in 2013 through 2017 and 2020) and the seasonal low groundwater elevation appears to correlate with an increase in the thickness of NAPL encountered in this well. Additionally, the single groundwater surface elevation measured below 3 ft. AMSL in monitoring well VE-4-1 (i.e., a groundwater elevation of around -0.5 ft AMSL measured in December 2017) is accompanied by the greatest quantity of NAPL encountered during monitoring of this well (i.e., 0.08 ft. of NAPL).

Based on the data presented above, it appears that groundwater elevations in the vicinity of OUII-F and PGW-2 have the potential to drop below the bottom of the OUI sheeting wall during seasonal low periods. As such, it is proposed that the piezometers in proximity of the sheet pile wall and select OUII monitoring wells be monitored during seasonal low conditions (i.e., between September and December) on a weekly basis to assess possible NAPL migration.

9. Section 8.5 of the HASP includes a paragraph describing "A CAMP will be implemented in accordance with Appendix 1A of the DER 10-guidance document". A full CAMP should be included in the CMWP and executed whenever ground intrusive work is performed. The CAMP should be included in a stand-alone Appendix and reference in the body of the CMWP where appropriate. Readings collected should be provided on a weekly basis with all exceedances reported to the Department and NYSDOH within 24 hours. In addition, all reported exceedances will cite the reason and all subsequent corrective measures.

Section 8.5 will be removed from the HASP in Appendix A of the CMWP and re-designated Appendix A-1, and replaced with a CAMP to be presented as Appendix A-2. The reporting requirements identified above will be incorporated into the CAMP under the Section titled, *Reporting Requirements*.

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

V-1	OU-I well within vault
P-9	Piezometer installed around OU-I/OU-II sheet pile wall
VE4-6	Well within OU-II
OUII-A	Off-Site monitoring well
SP-North	Monitoring well in terminus of sheet pile wall in NAPL Area L1

OU-II NAPL area boundaries

Approximate location of sheet pile wall around remediated former lagoon area (OU-I)

Approximate location of L1 sheet pile wall

Extent of OU-I final cover system

OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	03-2022
DATE DRAWN	03-2022
DATE ISSUED	03-30-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
OU-I and OU-II Well Locations

Project No.
21-3617M (027)

FIGURE A

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PROJECT MANAGER	RLK
DATE	08-2021
DRAWN BY	CAH
DATE DRAWN	08-2021
SCALE	As Noted
DATE ISSUED	04-01-2022

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OUI AND OUII
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO 360010

Drawing Title
Proposed NAPL Recovery Wells

Project No.
21-3617M (027)

FIGURE 7

ATTACHMENT A

SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.
3. This figure shows four (4) areas where non-aqueous phase liquid (NAPL) designated as NAPL AREA L1, NAPL AREA L2, NAPL AREA L3, and NAPL AREA L4 in the OU-II Remedial Investigation Report.

Treatment Wells Installed As Part Of The Vacuum Enhanced NAPL Recovery System In 2002

LEGEND:

- VE1-2 — Vapor Extraction Well
- AI2-2 — Air Inlet Well
- FA4-9 — Forced Air Injection Well
- PGW-1 — Groundwater Monitoring Well
- Approximate NAPL Extent In 2002
- Approximate NAPL Extent In 2010
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary

PROJECT MANAGER	RLK
DRAWN BY	RJM/Tw
SCALE	As Noted
DATE	10-2011
DATE DRAWN	10-27-2011
DATE ISSUED	10-27-2011

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10016-0710

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

SITE MANAGEMENT PLAN

DRAWING TITLE
Operable Unit-II Extent Of NAPL in 2010

PROJECT NO.
10-3231M (46)

FIGURE 8

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Ref2:
Ref3:
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SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. This figure shows four (4) areas where non-aqueous phase liquids (NAPL) have been detected. The four (4) NAPL areas are identified as NAPL AREA L1, NAPL AREA L2, NAPL AREA L3, and NAPL AREA L4.
3. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.
4. The following wells were decommisioned in June 2011 (refer to Figure 6 for locations); NAPL Area L1: AI1-2, AI1-3, AI1-5, AI1-6, AI1-7, AI1-9, AI1-10, AI1-13, AI1-14, VE1-5, VE1-6, VE1-7, VE1-8, VE1-9, and VE1-10;
NAPL Area L2: AI2-1;
NAPL Area L3: AI3-1, AI3-2, AI3-3, and UE3-2;
NAPL Area L4: FA4-1, FA4-2, FA4-3, FA4-4, FA4-5, FA4-6, FA4-7, FA4-22, FA4-25, VE4-2, VE4-3, and VE4-4.

LEGEND:

VE1-2	Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA) Or Existing Monitoring Well and Designation
DAY-1	Long-Term Monitoring Well
RW-1	Product Removal Well
	Approximate NAPL Area Boundaries Identified In OU-II Remedial Investigations Report
	Approximate NAPL Extent Based on 2010 Measurements
	Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
	Extent Of OU-I Final Cover System
	OU-II Boundary
	OU-I Contingency Vapor Extraction System Wells

PROJECT MANAGER	RLK
DRAWN BY	RJM
SCALE	As Noted
DATE	11-2012
DATE DRAWN	11-5-2012
DATE ISSUED	11-5-2012

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
SITE MANAGEMENT PLAN

DRAWING TITLE
Current Monitoring Well Network

PROJECT NO.
10-3231M (46)

FIGURE 10

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ATTACHMENT B

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.

2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- **V-1** — OU-I Well within vault
- **OUII-A** — Off-Site monitoring well
- **P-9** — Piezometer installed around OUI/OUII sheet pile wall
- **VE4-1** — Well within OU-II
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	03-2022
DRAWN BY	CPS
DATE DRAWN	03-2022
SCALE	As Noted
DATE ISSUED	03-30-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Site Plan

Project No.
21-3617M (027)

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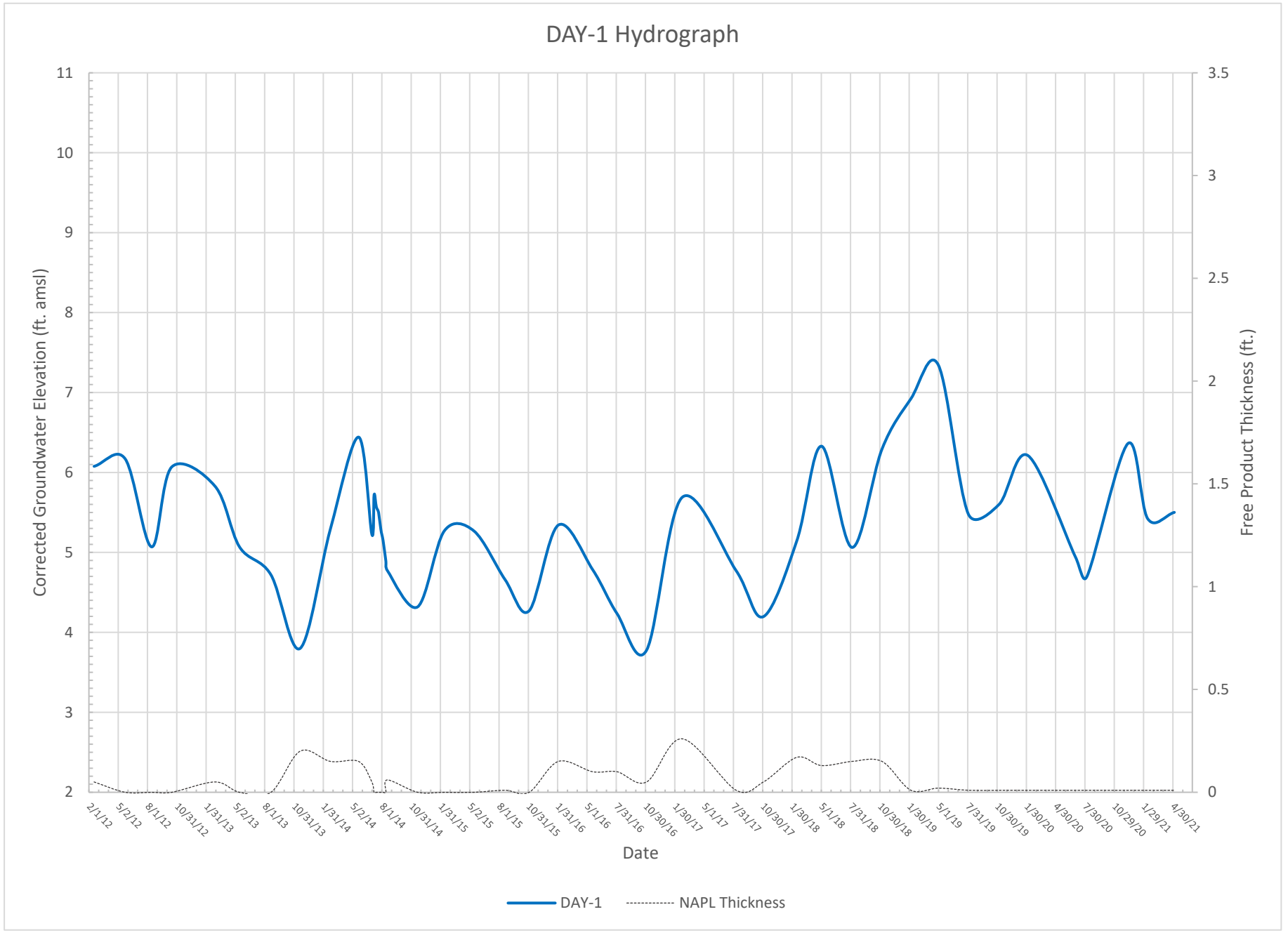
DAY-1 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
DAY-1
NAPL Thickness
11
10
9
8
7
6
5
4
3
2
3.5
3
2.5
2
1.5
1
0.5
0
2/1/12
5/2/12
8/1/12
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5/2/13
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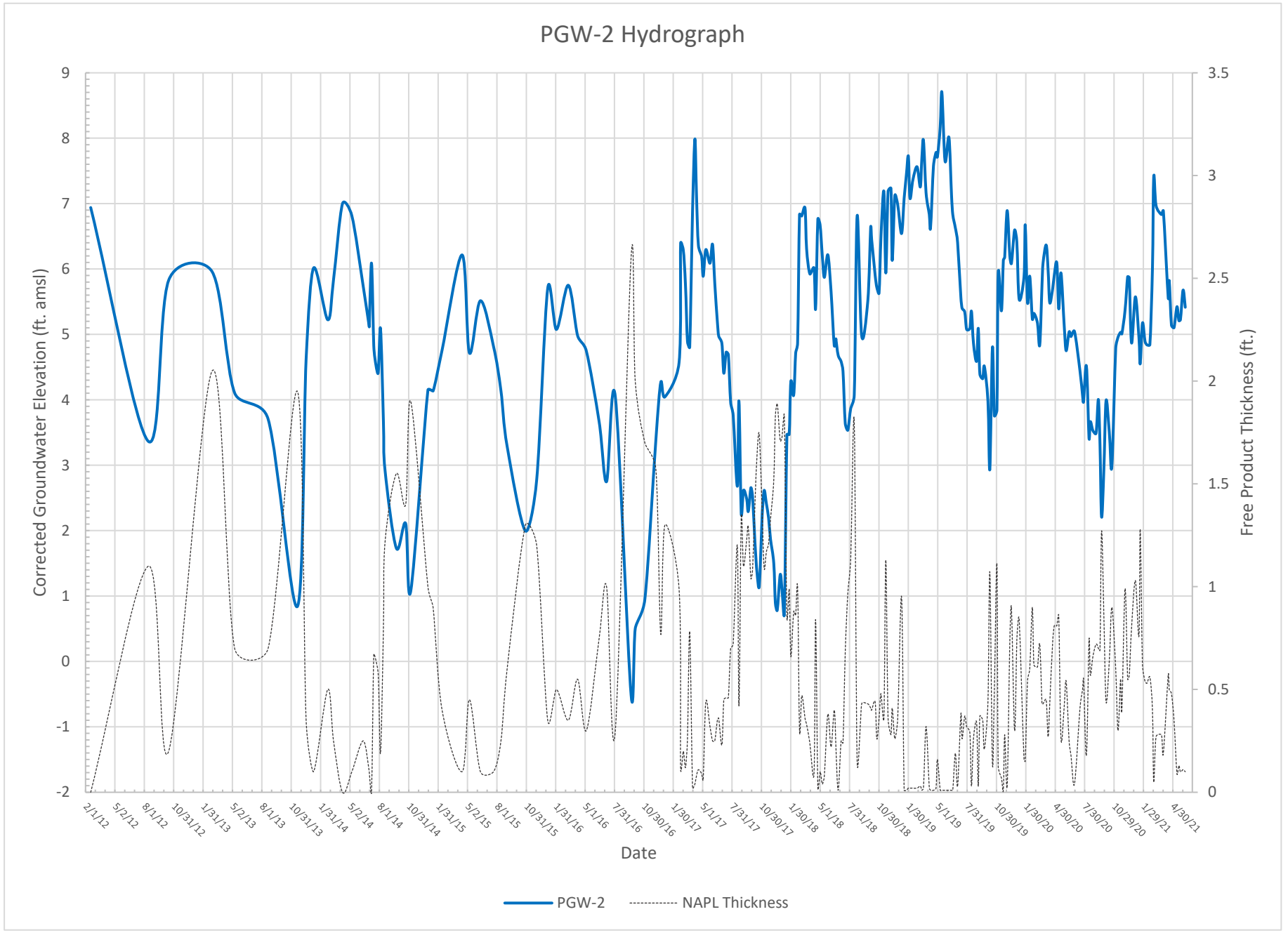
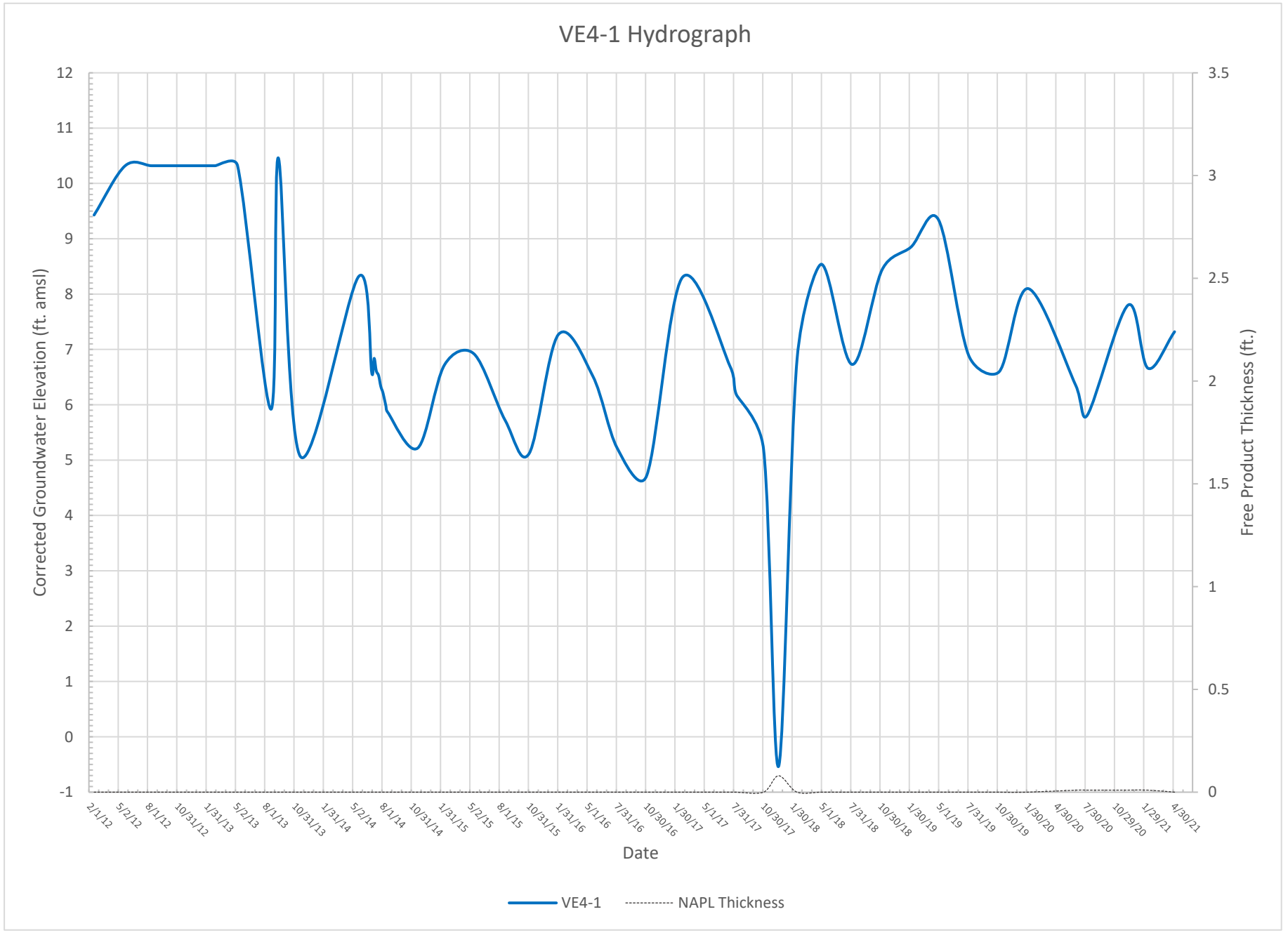
4/30/21


PGW-2 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
PGW-2
NAPL Thickness


VE4-1 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
12
11
10
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5
4
3
2
1
0
-1
3.5
3
2.5
2
1.5
1
0.5
0
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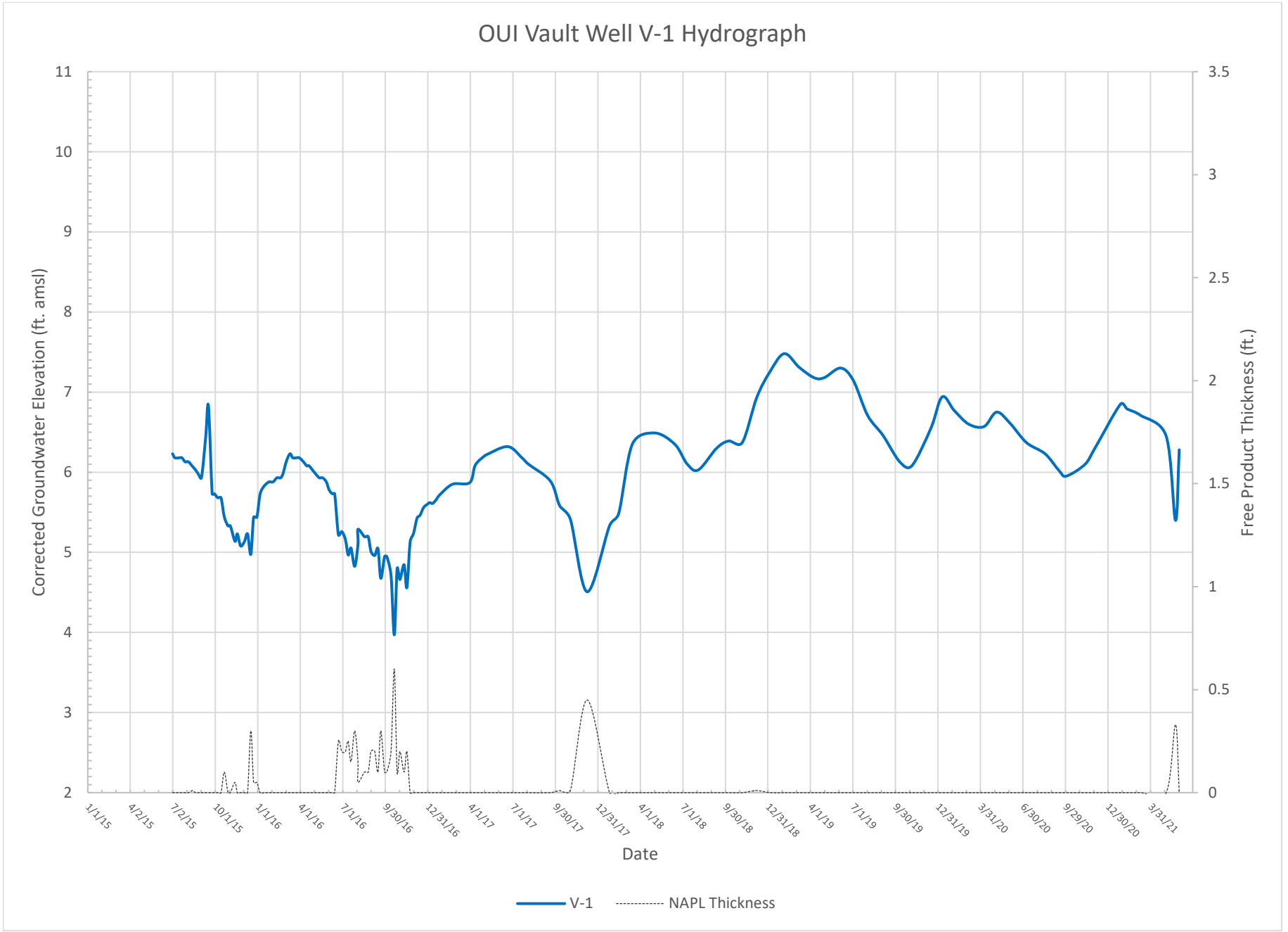
VE4-1
NAPL Thickness


OUI Vault Well V-1 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
11
10
9
8
7
6
5
4
3
2
3.5
3
2.5
2
1.5
1
0.5
0
1/1/15
4/2/15
7/2/15
10/1/15
1/1/16
4/1/16
7/1/16
9/30/16
12/31/16
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7/1/19
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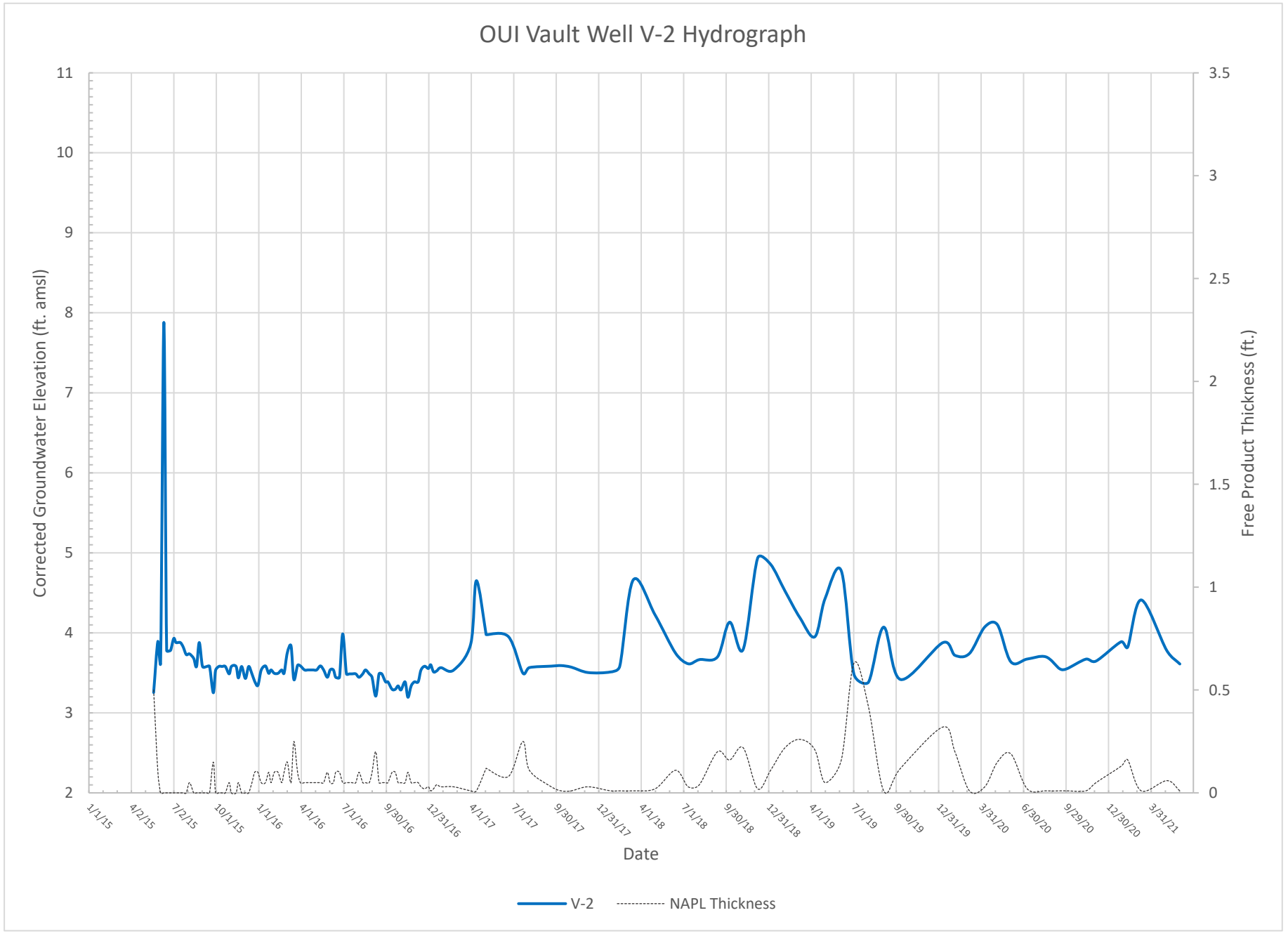
3/31/21
V-1
NAPL Thickness


OUI Vault Well V-2 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
11
10
9
8
7
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5
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2
3.5
3
2.5
2
1.5
1
0.5
0
1/1/15
4/2/15
7/2/15
10/1/15
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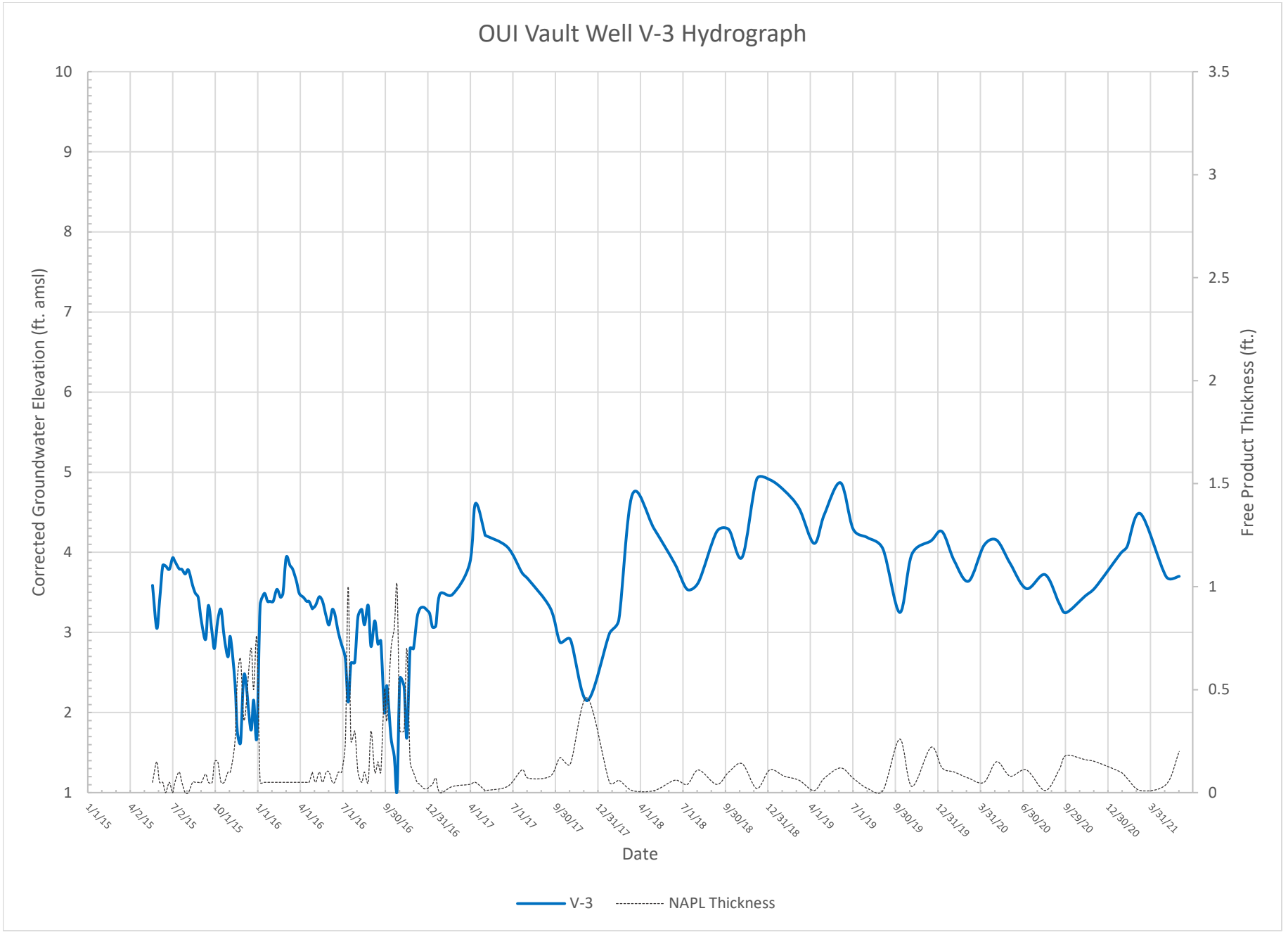
Date
V-2
NAPL Thickness


OUI Vault Well V-3 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
10
9
8
7
6
5
4
3
2
1
3.5
3
2.5
2
1.5
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0
1/1/15
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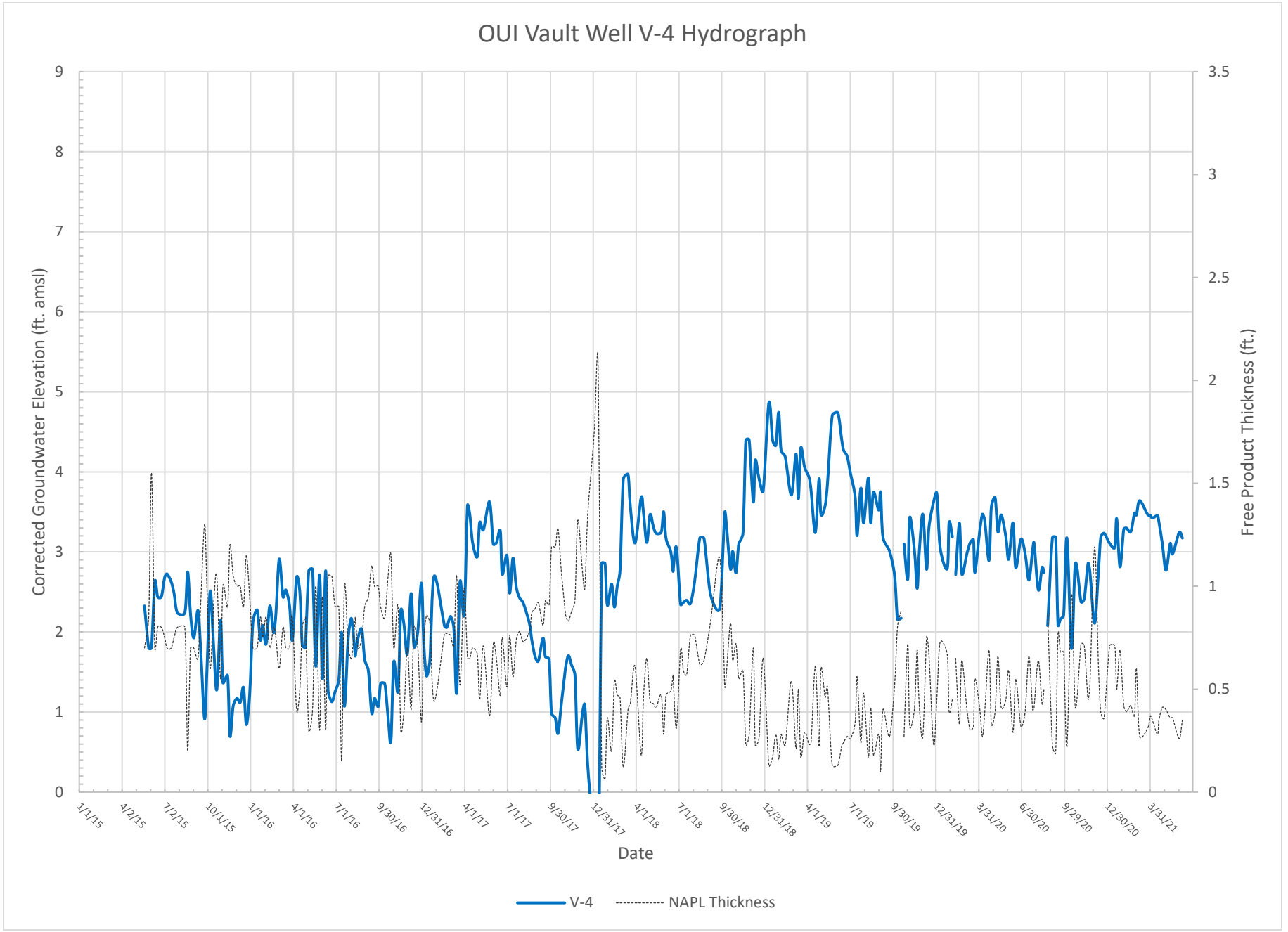
6/30/20
9/29/20
12/30/20
3/31/21
V-3
NAPL Thickness


OUI Vault Well V-4 Hydrograph
Corrected Groundwater Elevation (ft. amsl)
Free Product Thickness (ft.)
Date
V-4
NAPL Thickness
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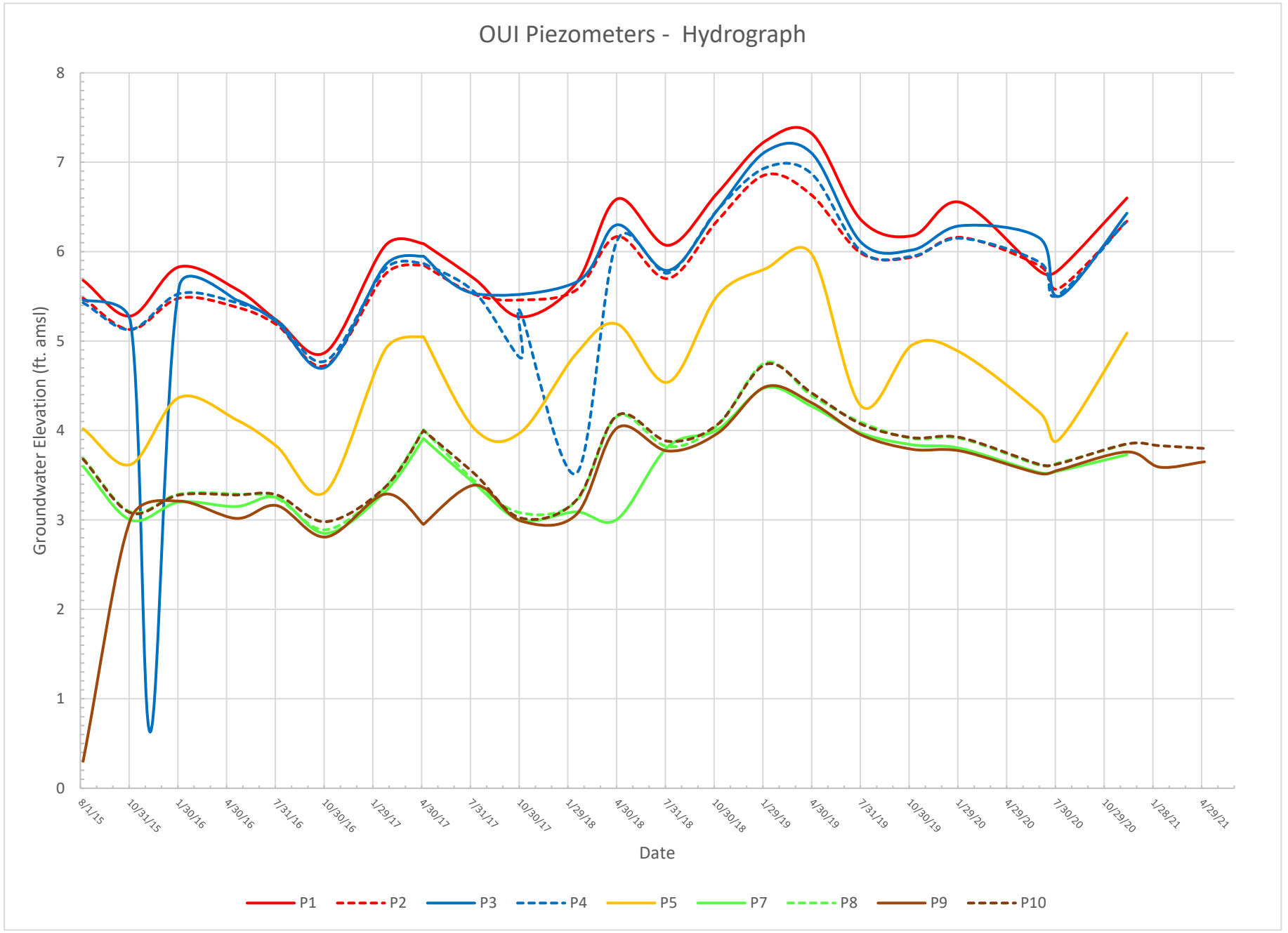

Note: measurements were not collected in piezometer P6 between 2015 and 2021 b/c well was blocked

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E
625 Broadway, 12th Floor, Albany, NY 12233-7017
P: (518) 402-9813 I F: (518) 402-9819
www.dec.ny.gov

July 29, 2022

VIA E-MAIL- NO HARDCOPY WILL BE SENT
Sara M. Gianazza, Esq.
Senior Manager
Department of Environmental Compliance and Services
Metro-North Railroad
420 Lexington Avenue
New York, New York 10170

Re: April 2022 Corrective Measures Work Plan Response Letter
Operational Unit II – L4 NAPL Area
Harmon Railroad Yard (Site No. 360010)
Croton-on-Hudson, New York

Dear Sara Gianazza,

The Department has reviewed the above-referenced April 2022 Corrective Measures Work Plan (CMWP) Response Letter and Attachments for the L4 non-aqueous phase liquid (NAPL) Area, prepared on behalf of Metro-North Railroad (MNRR) by Day Engineering, P.C. (Day). As a result, the Department has the below comment responses. If comments made in the April 2022 CMWP Response Letter do not appear below, the Department has found them acceptable.

December 2021 Department Comment	The Department requires clarification on the groundwater figures provided in Appendix C including the below: • The CMWP does not incorporate the results of a resurvey of existing monitoring wells, as discussed with Department agents during the July 13, 2021 site meeting. The groundwater contour maps and hydrographs in the CMWP should be updated as needed to reflect the results of a resurvey that verifies the coordinates and elevations, relative to a uniform datum, of existing, accessible onsite and offsite wells associated with the L4 NAPL Area.

April 2022 MNRR/Day Response	*The resurvey has not yet been completed. This work was put on hold for various reasons including awaiting the NYSDEC response to the CMWP, which was submitted in August 2021. This work is currently being scheduled and will be done in conjunction with the cleaning/redevelopment of select monitoring wells. The information collected will be used to update and revise the CMWP as necessary.*
July 2022 Department Comment	To help facilitate further analysis, a list or table should be provided, as part of the revised CMWP and/or other documents, indicating which wells have been re-surveyed and which wells have been cleaned/redeveloped,
December 2021 Department Comment	The Department requires clarification on the groundwater figures provided in Appendix C including the below: • Groundwater contour maps and hydrographs should indicate whether groundwater elevations have been corrected to account for NAPL thicknesses, where encountered, and the method of correction, if any.
April 2022 MNRR/Day Response	*Where applicable, the groundwater elevations were corrected for NAPL. A note can be added to future maps, if applicable.*
July 2022 Department Comment	To help facilitate further analysis, a list or table should also be provided as part of the revised CMWP and/or other documents, indicating gauging results and adjustments for NAPL thickness, for each monitoring event
December 2021 Department Comment	The Department requires clarification on the groundwater figures provided in Appendix C including the below: • Groundwater contours should be removed from within the OUI footprint unless supported by gauging data from within that footprint. For example, the first several maps in Appendix C do not show any gauging data within the OUI footprint, and therefore the contours within OUI are not well supported.
April 2022 MNRR/Day Response	*Only groundwater contour maps that include gauging data for monitoring wells within OUI will be presented in the revised version of the CMWP. [Note: Although not shown on the site plans presented in the CMWP, adjacent piezometers, designated P-1 through P-10 were installed inside and outside the sheet pile wall during the remediation process (see the attached Figure A). [Note: Piezometer P-6 is blocked at around 5 ft. below ground surface and cannot be repaired.] The groundwater elevations in these piezometers will be included if static water levels were measured during the monitoring events.*

July 2022 Department Comment	Previously included groundwater contour maps do not necessarily need to be removed from the CMWP. It is only necessary to remove contours or portions of contours from a given map where they are unsupported by local data.
December 2021 Department Comment	The Department requires clarification on the groundwater figures provided in Appendix C including the below: • For maps with contours showing flow traversing the former lagoon at elevations that would be obstructed by the sheeting wall, associated flow arrows should be removed, as they would not be expected to accurately represent the actual water table flow direction in the vicinity of the sheeting. For example, arrows on the May 2017 contour map suggest that groundwater is flowing into and across the limits of OUI at Elevations 5 to 6 feet AMSL. This should be physically impossible, if, as Section 2.4 indicates, the sheet pile wall extends from ground surface to 3 feet AMSL, and functions as a barrier to migration of fluids.
April 2022 MNRR/Day Response	*Agreed flow across the sheet pile should be impeded, but not necessarily eliminated as the sheet pile wall is not impermeable and is not installed into a subsurface material that would act as a confining layer.*
July 2022 Department Comment	According to Section 2.4 of the August 2021 version of the CMWP, the sheet pile OU-I wall consists of Z-type interlocking sheet pile extending from grade to approximately 3 feet AMSL. Presumably a watertight sealant was injected at each plate, as was reportedly done at the NAPL Area L1 sheeting area as described in the SMP. An HDPE geomembrane is reportedly present at 9 ft AMSL within the OU-I area. If this information is confirmed to be accurate, then, based on these conditions, groundwater within the sheet pile wall at an elevation of 3 ft AMSL higher is expected to be relatively stagnant. It should not be necessary for the bottom of the sheeting to be keyed into a low permeability material in order to divert groundwater around the sheeting and create a condition of negligible or de minimis lateral flow across the sheeting wall above an elevation of 3 ft AMSL or higher. Therefore, the Department still has concerns about whether the depictions of flow direction are accurate and/or complete in the cited instances. Note that this same concern also applies to the vicinity of the L1 sheeting.

December 2021 Department Comment	The Department requires clarification on the groundwater figures provided in Appendix C including the below: • Any wells with unknown screened intervals, or screened interval that may not be suitable for intercepting NAPL, should be identified on the maps.
April 2022 MNRR/Day Response	*The well screens/sand packs will be evaluated and locations that are suspected to be too deep to collect NAPL (if any) will be identified.*
July 2022 Department Comment	To help facilitate further analysis, a list or table should be provided, as part of the revised CWMP and/or other document, indicating screened depths and elevations versus adjusted groundwater elevations. This will help evaluate whether the screened interval is suitable (i.e., not too deep or too shallow).
December 2021 Department Comment	NAPL above and/or below the water table can sometimes move against prevailing groundwater flow gradients when present at significant thicknesses, it is unclear to the Department if the proposed passive skimming approach will produce a substantial capture radius at each recovery well. Therefore, additional information is requested to demonstrate the claimed prevailing gradients and/or induced gradients will be sufficient to preclude further offsite NAPL migration.
April 2022 MNRR/Day Response	*It is agreed that depending on viscosity, NAPL can move against the hydraulic gradient for relatively short distances if there is a significant thickness of NAPL. However, currently there is no evidence to support that this is the case at this site. Further, the available data suggests that NAPL has not migrated beyond the current off-site monitoring wells. Monitoring of these locations during the remediation should be sufficient to assess the effectiveness of the remediation. Should NAPL thicknesses increase during remediation, additional monitoring wells positioned further off-site (e.g., south of the access road in the direction of the closed Westchester Landfill) may be required.*
July 2022 Department Comment	The Department agrees that NAPL migration against a prevailing hydraulic gradient would generally be expected to be limited/constrained unless the NAPL thickness is significant. The requested installation and gauging of additional wells, and proposed refinement of flow contours, would provide additional data to help determine whether NAPL migration can be expected to be reliably constrained under the existing conditions (variations in local NAPL distribution and groundwater flow gradient(s)) or whether

	supplemental measures may be needed. The Department believes that demonstration of hydraulic control remains an important concern.
December 2021 Department Comment	The CMWP relies upon certain interpretations regarding NAPL extent and distribution. For example, Section 2.4, Conceptual Site Model, appears to make suggestions about NAPL migration, or lack thereof, based on the lack of NAPL in monitoring well OUII-E and temporary (1997) monitoring wells OS-G and OS-H. Additional information and clarification is required to argue the meaning of, and basis for, these suggestions.
April 2022 MNRR/Day Response	*It is unclear what additional information is required. NAPL has not been detected in off-site monitoring well OUII-E since measurements in this well began more than 5 years ago. The screened interval of this well does not vary significantly from the two nearest off-site monitoring wells, indicating that if NAPL was present in this location it would be identified in monitoring well OUII-E.*
July 2022 Department Comment	The requested installation and gauging of additional wells, and proposed refinement of flow contours, would provide additional data to help determine whether NAPL migration can be expected to be reliably constrained under the existing conditions (local NAPL distribution and groundwater flow gradient(s)) or whether supplemental measures may be needed. In addition, the OUII NAPL area, as depicted on Figure 3 of the CMWP, is shown to extend west of OUII-E. Due to the absence of on-Site monitoring wells in this area and since monitoring west of OUII-E has presumable not been made for some time, the Department requires two additional groundwater monitoring points west of OUII-E. Please update the CMWP with two proposed locations.
December 2021 Department Comment	Aside from VE4-1, there appears to be a lack of NAPL gauging and distribution data, for the L4 NAPL Area and adjacent offsite area, extending between the vicinity of monitoring wells FA4-8, VE4-5, and OUII-E, DAY-1, and PGW-2. Given the aforementioned uncertainties in groundwater flow direction, and the potential long-term changes that may have occurred during the period following OUI closure, there is a concern that the delineation proposed in Figure 6 may leave significant spatial data gaps

	(on the order of 100 feet). To be consistent with the spacing of the existing OUII-series wells and the proposed new delineation wells, and to create a more uniform delineation along the yard boundary, the Department requires that two additional wells be installed along the southern boundary in the general vicinity of VE4-1. Please revise Figure 6 to include these additional locations.
April 2022 MNRR/Day Response	*Figure 8 and Figure 10 from the Site Management Plan (SMP) for the Site are provided as Attachment A. As shown on Figure 8 ten wells were previously installed in proximity of VE4-1 (i.e., designated FA4-1 through FA4-7 and VE4-2 through VE4-4). These wells were monitored for NAPL since their installation in 2002 and these wells (i.e., in addition to 22 other wells in the OUII area) were decommissioned in July 2011. The note #4 on Figure 10 of the SMP provides a complete list of wells closed in July 2011). Thus, the area between monitoring wells FA4-8, VE4-5, OUII-E and DAY-1 is not considered a data gap and installation of new monitoring wells in this area is not required.*
July 2022 Department Comment	There is a concern that residual on-site NAPL in the vicinity may not have been detected and/or fully remediated by the cited vapor extraction and forced air injection wells, or that NAPL may have reaccumulated after they were decommissioned in 2011. [This same type of situation may have previously occurred in the vicinity of OUII-B and OUII-D.] Additionally, no monitoring for residual off-site NAPL has presumably occurred since the time that OS-H and OS-G were being utilized. Lastly, the flow gradient(s) at the site, including along the southern border (where there is currently a relative lack of monitoring wells) remains somewhat uncertain. For these reasons, the Department requires installation of wells in this area. In lieu of formally constructed monitoring wells, MNRR/Day may elect to install 1-inch piezometers in this area. If NAPL is detected during monitoring of these locations, additional corrective measures will be required.
December 2021 Department Comment	Section 3.5 indicates that additional corrective measures, such as a NAPL collection trench, may be warranted if a sufficient quantity of NAPL cannot be removed in the OUII offsite monitoring wells. A specific threshold should be proposed to determine when to implement additional corrective measures to address offsite NAPL migration. This proposed threshold must be consistent with the OUII ROD-based remediation goal of preventing further offsite NAPL migration. To this end, a condition of “no detectable

	NAPL" and/or establishing hydraulic control via a documented inward gradient may be a suitable threshold.
April 2022 MNRR/Day Response	*The remedial goals for the site presented in the ROD state: "Prevent further offsite migration of OUII NAPL; remove OUII NAPL to the extent practicable; and continue to prevent direct contact with subsurface OUII NAPL in the vicinity of the former lagoon" As stated in the Section 2.1 of the CMWP, NAPL was identified in monitoring wells (i.e., designated OS-G and OS-H) installed at off-site locations to the southeast of NAPL area L4 and evaluated for the RI study (refer to Figure 3 of the CMWP) in the vicinity of monitoring wells OUII-A, OUII-B, OUII-C, OUII-D and OUII-E. Thus, the findings presented to date do not indicate further off-site migration of NAPL in this area. Further, the NAPL thicknesses presented on the hydrographs for monitoring wells OUII-A, OUII-B, and OUII-D (Refer to Appendix B of the CMWP) appear to indicate a downward trend between 2016 and 2021 (i.e., with the exception of two reported detections of free product in well OUII-C that may be due to measurement error, NAPL was not encountered in monitoring wells OUII-C or OUII-E during this time period). Thus, the available data does not indicate further off-site migration of NAPL toward the southeast, than was documented at the time of the OUII ROD.* *Because the corrective measures proposed for the OUII-F and PGW-2 area rely on an iterative approach (i.e., further delineation followed, as necessary, by the installation of NAPL recovery wells) a specific threshold for additional corrective measures in this area is not feasible until the delineation work has been completed.* *Specific to the proposed recovery wells in the vicinity of monitoring wells OUII-A, OUII-B, OUII-C and OUII-D, it is proposed that: if following installation, startup, and the completion of NAPL removal events in the recovery wells over a period of two years, NAPL is encountered in monitoring wells OUII-A, OUII-B, OUII-C, OUII-D and OUII-E during the subsequent year (i.e., 52 weekly monitoring events) in excess of de minimis levels (e.g., 0.1 ft. or less in thickness), additional corrective measures will be proposed and subsequently implemented.*
July 2022 Department Comment	The Department agrees that, based on the data presented in cited hydrographs, it appears there has been a general decrease in magnitude and frequency of NAPL detections in OUII-A, OUII-B, and to a lesser extent OUII-D. However, an apparent decreasing trend in NAPL thicknesses

does not preclude the possibility that NAPL may potentially be migrating beyond the monitoring/recovery wells.

Additionally, it is unclear what is being proposed as a next step once the proposed threshold of 0.1 feet of NAPL is attained. Since typical interface probes have a resolution of 0.01 feet, it seems that cessation of remediation upon attainment of the 0.1-foot threshold (if that is being proposed) would potentially allow NAPL to migrate further and accumulate in wells at detectable levels. In addition, the proposed threshold runs counter to Section 3.3.1.2 of the SMP which states “The presence of NAPL will be confirmed using visual observations and, if NAPL is measured at a thickness greater than 0.01 feet within a well that does not contain a Magnum Spill Buster, NAPL will be removed using a portable product skimmer, a bottom opening bailer, or a NRD, as appropriate.”

December 2021 Department Comment	Based on the hydrograph presented for monitoring well OUII-F, NAPL may be present depths beneath the former lagoon and could migrate beneath the bottom of the OUI sheeting wall (at Elevation 3 feet AMSL) towards the vicinity of PGW-2 at certain times. If so, this could remain an ongoing source of NAPL. The Department requires that an evaluation of this condition be made and discussed in the final reporting.
April 2022 MNRR/Day Response	*The elevation of the bottom of the sheeting wall identified in the CMWP (i.e., around elevation 3 ft. AMSL) has to be verified from as-built drawings, which were not available at the time of the CMWP preparation (i.e., DAY does not have a copy of these drawings and, to date, MNR has not been able to locate them). It is requested that the NYSDEC provide a copy of the as-built drawings (if available) for the construction of the sheeting wall, which are identified as Contract Drawings C-6 and C-8 in the document titled, Operable Unit I Closure Report, Volume II, Harmon Railroad Yard, Croton-on Hudson, New York, dated July 1999, revised May 2000, prepared by Environmental Resources Management of New York, NY (ERM).* *Pursuant to identifying trends in the elevations of the groundwater surface in proximity to the southwest of OUI, hydrographs were prepared and reviewed for monitoring locations within the OUI sheeting wall (i.e., vault wells V-1 through V-4) and piezometers located in pairs along the perimeter of the sheeting wall (i.e., P-1/P-2, P-3/P-4, P-5, P-7/P-8 and P-9/P-10), which were monitored quarterly between 2015 and 2021. [Note:*

Piezometer P-6 is plugged and has not been monitored.] In addition, hydrographs were prepared and reviewed for monitoring wells located in the vicinity of OUII-F, including PGW-2, DAY-1, and VE4-1. These hydrographs are presented, along with a Site Plan depicting the well locations, in Attachment B, and relevant findings are discussed below.

- *Groundwater surface elevations measured in vault well V2 (i.e., located in the southeastern portion of OUI) appear to be consistently above 3 ft. AMSL. [Note the groundwater surface elevations measured in this well between 2015 and 2021 average 3.69 ft. AMSL, and range between 3.20 ft and 7.88 ft AMSL]. Groundwater surface elevations measured in vault well V3 (i.e., located in the southwestern portion of OUI) appear to be generally higher than 3 ft. AMSL. However, groundwater elevations in vault well V3 appear to drop below elevation 3 ft. AMSL on a seasonal basis (i.e., generally during the fall months, as measured in 2015, 2016 and 2017). [Note the groundwater surface elevations measured in this well between 2015 and 2021 average 3.37 ft. AMSL, and range between 1.03 ft. and 4.91 ft. AMSL].*

- *Groundwater surface elevations in proximity to the sheeting wall and in the vicinity of PGW-2 (i.e., represented by hydrographs in piezometers P3, P4, P5, and in monitoring well DAY 1) appear to remain above the elevation of 3 ft. AMSL (except for an anomalous, and possibly erroneous, reading from piezometer P3 made in November 2015). [Note: These wells are measured on a quarterly basis, and thus the data may not be representative of the seasonal high and low groundwater surface elevations.]*

- *Groundwater surface elevations in monitoring wells VE4-1 and PGW-2, located on the slope between the sheeting wall and the roadway, appear generally higher than 3 ft. AMSL. However, groundwater elevations in monitoring well PGW-2 appear to drop below elevation 3 ft. AMSL on a seasonal basis (i.e., generally during the fall months, as measured in 2013 through 2017 and 2020) and the seasonal low groundwater elevation appears to correlate with an increase in the thickness of NAPL encountered in this well. Additionally, the single groundwater surface elevation measured below 3 ft. AMSL in monitoring well VE-4-1 (i.e., a*

groundwater elevation of around -0.5 ft AMSL measured in December 2017) is accompanied by the greatest quantity of NAPL encountered during monitoring of this well (i.e., 0.08 ft. of NAPL).

Based on the data presented above, it appears that groundwater elevations in the vicinity of OUII-F and PGW-2 have the potential to drop below the bottom of the OUI sheeting wall during seasonal low periods. As such, it is proposed that the piezometers in proximity of the sheet pile wall and select OUII monitoring wells be monitored during seasonal low conditions (i.e., between September and December) on a weekly basis to assess possible NAPL migration.

July 2022 Department Comment	Based on a review of the additional hydrographs, there is a concern that the piezometer gauging data, while potentially useful, may not be correlated with groundwater levels and/or variations in NAPL thickness in the other wells. Therefore, it is not clear that the piezometer data, at least by itself, is likely to be a strong predictor of NAPL migration potential. Instead, the additional hydrographs appear to suggest that NAPL accumulation in wells may typically increase after periods of low water table conditions. The Department believes this underscores the need to increase groundwater monitoring capabilities by installing additional wells along the site boundaries, as indicated. In lieu of formally constructed monitoring wells, MNRR/Day may elect to install 1-inch piezometers in this area. If NAPL is detected during monitoring of these locations, additional corrective measures will be required. Please update the CWMP with proposed locations and construction details.

The Department requires a response and/or formal CWMP revisions for the applicable items above within 60 days of receipt of this letter. Due to the high number of Department comments and MNRR/Day responses, if there are any further MNRR/Day comments requiring resolution, it is recommended that a conference call be scheduled to discuss. If you have any comments, questions, or concerns, please do not hesitate to contact me at 518-402-5987 or e-mail at brianna.scharf@dec.ny.gov.

Sincerely,

Brianna Scharf
Project Manager

Ec:
Sarah Saucier, NYSDEC
Johnathan Robinson, NYSDOH
Justin King, TRC
Sean Lorden, TRC
Matthew Hoskins, TRC
Raymond Kampff, Day Engineering

TRC Engineers, Inc.
10 Maxwell Drive
Suite 200
Clifton Park, New York 12065

Main: 518.348.1190
Fax: 518.348.1194

Conference Call Agenda

Project:	Harmon Rail Yard NYSDEC Site No. 360010	Conference Call Date:	August 23, 2022 11:00am
Project No.:	NYSDEC Work Assignment: D009812-04		
Prepared By:	Matthew Hoskins – TRC		
Distribution List:	Brianna Scharf – NYSDEC, PM Sarah Saucier – NYSDEC Johnathan Robinson – NYSDOH	Sara Gianazza – MNR Claire Sammon – MNR Raymond Kampff – DE	Justin King – TRC Sean Lorden – TRC Jim Magda – TRC Nathan Kranes – TRC
Purpose:	**Corrective Measures Work Plan Conference Call**		

Topics

- Attendance/introduction
- Review Comments on Corrective Measures Work Plan (Issued 7/29/2022)
    - Well survey and groundwater flow directions
    - Effect of L1 sheet pile on implications on GW flow
    - Current proposed NAPL recovery well layout
    - Additional requested monitoring points
- Open discussion
- Summary/next steps
    - Timeframe & Schedule – what is MNR and DE proposed timeframe?

MEETING SUMMARY
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
HARMON RAILROAD YARD – WASTE WATER AREA, SITE NO. 360010
WORK ASSIGNMENT NO. D009812-04, TASK 18

MEETING INFORMATION

Date: 08/23/2022
Time: 11:00-11:30 AM
Subject: Discussion of Comments and Responses on Corrective Measures Work Plan
Preparer: Matthew Hoskins
Distribution Date: 8/29/2022
Participants:

Affiliation	Name
NYSDEC	Brianna Scharf Sarah Saucier
NYSDOH	Johnathan Robinson
Metro-North Railroad	Sara Gianazza Clare Sammon Ray Kampff * Charles Hampton* Heather McLennan*
TRC	Justin King Matthew Hoskins Nathan Kranes James Magda Sean Lorden

Notes: *Representative from Day Engineering

DISCUSSION ITEMS

Information discussed during the August 23, 2022 call among New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH), Metro-North Railroad (MNR) and their consultants from Day Engineering (Day), and TRC Engineers, Inc. (TRC) is summarized below by topic.

- **Well survey and groundwater flow direction**
    - MNR indicated the well resurvey has been completed. However, three wells were overlooked during the resurvey and the land surveyor will mobilize back to the Site on 9/1/2022 to resurvey the remaining wells. MNR will adjust tables and groundwater contours, as necessary, and resubmit.
    - MNR indicated that groundwater contours look better using the resurvey information that is available to date and it does not appear the wells need to be redeveloped.
    - MNR indicated NAPL in L1 is being contained by the sheet piles and there has been no

NAPL detected downgradient of the sheet piles. An initial false positive NAPL detection was later confirmed not to be present. If NAPL is detected again in the future, MNR will attempt to confirm presence/absence by other means such as a bailer or tubing, or some other applicable means.

- Groundwater flow across the Site is from the southeast to the northwest, flowing around the sheet piles and OU-1. Early contour maps did not have hydraulic control in the sheeting area, MNR will remove contours from areas with control. Groundwater should not be shown as flowing through the sheet piles, but rather show a gradient. MNR will revise and resubmit the groundwater contours, as necessary.

- **Current proposed NAPL recovery well layout**
  - Ten historic wells located along the south side of the Site between existing wells PGW-2 and RW-1 were decommissioned in 2011 after being non-detect for NAPL.
  - MNR proposed to perform a subsurface boring program (screening of potential new monitoring well locations and assessment of recoverable NAPL, if present, were discussed as initial details) using direct push drilling techniques along Half Moon Bay Drive in the area of the former historic wells. MNR indicated that the Town and County has had reservations with installing wells in this area in the past (equipment potentially obstructing the road) and a boring program using smaller equipment may be more favorable to start.
  - MNR indicated they have an outline for the subsurface boring program now and they will provide the outline, general program procedures, and a figure for NYSDEC review.
- **Additional requested monitoring points**
  - Additional monitoring points will be considered based on the results of the subsurface boring program.
- **Timeframe and schedule**
  - MNR indicated they will have a plan for the subsurface boring program the week of 8/29.
  - The boring program schedule is primarily dependent on access through the Town and County.
  - The first availability of drillers to perform the boring program is in October 2022.

RE: Harmon Rr Yard

Sara Gianazza
To Scharf, Brianna L (DEC)
Cc King, Justin; Ray Kampff; Heather McLennan; Sammon, Clare

Reply | Reply All | Forward | ...

Wed 9/7/2022 12:56 PM

NYSDEC 360010 Corrective Measures Work Plan Response Letter - 2022-08-31.pdf
2 MB

Hello Brianna,

Please see attached for your review.

Thanks,
Sara

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Wednesday, September 7, 2022 8:27 AM
To: Gianazza, Sara <Gianazza@mnr.org>
Subject: RE: Harmon Rr Yard

Hi Sara,

You could submit this now. I appreciate you taking the time to show me the site last week.

Thanks,
Brianna

From: Gianazza, Sara <Gianazza@mnr.org>
Sent: Thursday, September 1, 2022 12:49 PM
To: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Subject: RE: Harmon Rr Yard

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Brianna,

Great meeting you all today. Based on our call last week we were preparing a work plan detailing the subsurface study and testing plans discussed for your review this week. Would you prefer we still submit that now or would you like to take a little more time to internally discuss things after today's site visit?

Best,
Sara

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Thursday, September 1, 2022 9:43 AM
To: Gianazza, Sara <Gianazza@mnr.org>
Subject: Automatic reply: Harmon Rr Yard

I will be out of the office Thursday 8/31 and will return Tuesday 9/6. If anything urgent comes up please contact Sarah Saucier, sarah.saucier@dec.ny.gov.

Thanks,
Brianna

Confidentiality Note: This e-mail, and any attachment to it, may contain privileged and confidential information and is intended for the use of the individual(s) or entity named on the e-mail. Unauthorized disclosure of this message is prohibited. If you have received this message in error, please notify the sender immediately by return e-mail and destroy this message and all copies thereof, including all attachments.

day
DAY ENGINEERING, P.C.

ENVIRONMENTAL ENGINEERING CONSULTANTS
AN AFFILIATE OF DAY ENVIRONMENTAL, INC.

August 31, 2022

Sara M. Gianazza, Esq.
Senior Manager
Department of Environmental Compliance and Services
Metro-North Railroad
420 Lexington Avenue
New York, New York 10170

Re: Corrective Measures Work Plan
Operational Unit II – L4 NAPL Area
Harmon Railroad Yard (Site No. 360010)
Croton-on-Hudson, New York

Dear Ms. Gianazza:

The scope of work outlined herein is proposed as an alternative to the corrective measures presented in Section 3.2 through Section 3.5 of the most-recent version of the document titled, "*Corrective Measures Work Plan, NAPL Remediation Operational Unit II (OUII) - L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010*".

Task 1 – Subsurface Study Utilizing Optical Image Tooling to Identify LNAPL via Induced Fluorescence

A subsurface study is proposed for the purpose of assessing the extent of residual LNAPL in the following areas:

1. The L4 NAPL Area,
2. on-site areas immediately to the west of the L4 NAPL Area (i.e., the vicinity of monitoring wells DAY-1 and PGW-2),
3. areas of documented off-site impact (i.e., in proximity of off-site monitoring wells OUII-A through OUII-D, and in proximity of off-site monitoring well OUII-F), and
4. areas of potential off-site impact, including areas located to the east and southeast of off-site monitoring wells OUII-A through OUII-D, the area located between, and to the south of, off-site monitoring wells OUII-E and OUII-F, and areas located to the southwest and west of monitoring wells PGW-2 and OUII-F.

The goals of the subsurface study will be to:

- determine the presence and vertical extent of LNAPL at each test location,
- estimate the areal extent of LNAPL between test locations, and
- identify geologic units that may be constraining/aiding LNAPL recovery (e.g., confining layers or perched conditions).

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www.dayengineering.com

The information collected during the proposed subsurface study will be used to:

- determine areas for future LNAPL recovery (e.g., placement of additional recovery wells), as necessary,
- aid in determination of LNAPL migration (e.g., offsite toward south, southeast, west and/or southwest), if occurring, and
- produce a qualitative assessment of residual LNAPL bodies, that can be compared to past studies (i.e., conducted circa 1995-2000) to gauge the progress of LNAPL recovery completed to date.

Proposed locations for 32 test borings arranged in four roughly-parallel transects are depicted on the attached Figure 1 and described below.

1. Proposed off-site test borings, designated OB-01 through OB-09, are depicted along the Croton-Point Park pedestrian path, generally 50+ feet (ft.) from the Harmon Railroad Yard boundary, and (except for proposed test boring OB-1) are located to the south of the access road to the Half-Moon Bay Town Houses.
2. Proposed off-site test borings, designated OB-10 through OB-16, are depicted along the line of the existing off-site monitoring wells (i.e., OUII-A through OUII-F), and (except for proposed test boring OB-16) are located to the north of the access road to the Half-Moon Bay Town Houses.
3. Proposed on-site test borings, designated OB-17 through OB-25, are depicted along the bottom of the slope within the L4 NAPL Area boundary and extending west to the vicinity of monitoring well PGW-2.
4. Proposed on-site test borings, designated OB-26 through OB-32, are depicted along the top of slope, within and or adjacent to the L4 NAPL Area boundary and extending west to the vicinity of monitoring well DAY-1. Proposed on-site test borings OB-26 through OB-32 are also located in proximity to the southern edge of the sheet-pile wall installed near the perimeter of NAPL Remediation Operational Unit I (OUI).

The spacing between the proposed test borings (along each transect) is generally about 75 ft., except between proposed on-site test borings OB-20 through OB-23 which are spaced about 50 ft. apart, to account for the turn in the OUII/Harmon Railroad Yard site boundary. The estimated ground surface elevation for each proposed boring location is depicted in tabular format on Figure 1.

Note: The estimated ground surface elevations for proposed on-site test borings, and offsite locations located in near proximity to the access road to the Half-Moon Bay Town Houses, are based on a topographic survey map of the Harmon Railroad Yard titled *MNR Survey Plan*, prepared by Gannett Fleming of New York, NY, dated April 7, 2011. The estimated ground surface elevations for proposed off-site test borings (for locations along the Croton-Point Park pedestrian path) are based on the 2-ft contour interval data on the Westchester County mapping webpage https://giswww.westchestergov.com/GISMap/index.html

The test borings will be advanced using direct-push drilling methods to advance optical logging tools into the subsurface. It is anticipated that the optical logging tool utilized will be the Optical Image Profiler (OIP) System developed by Geoprobe Systems®, Ultraviolet Optical Screening Tool (UVOST®) developed by Dakota Technologies, Inc., or similar. These tools utilize an ultraviolet or laser light source to induce fluorescence of residual LNAPL, in conjunction with a camera to capture the fluorescent light signature, and are typical equipped with an electrical conductivity (EC) sensor which is used to interpret the relative grain size of the overburden materials.

It is proposed that each test boring will be advanced to an elevation of mean sea level (MSL). As such, based on the estimated ground surface elevations presented on Figure 1, the depths of the proposed test borings will range between approximately 10.5 ft. below ground surface (bgs) and 19.5 ft. bgs. Test

borings in which evidence of LNAPL is observed at MSL at the time of drilling (i.e., based on real time data, measuring percent area of fluorescence) will be extended an additional 5 to 10 ft. into the subsurface.

Prior to advancement of the test borings described above, the proposed test locations will be marked in the field and cleared for drilling (i.e., assessed for the presence of buried utilities, 'hand cleared' in accordance with railroad policies and procedures, etc.). The ground surface elevation at each point will subsequently be measured using a laser level, and located in relation to existing site features and with a GPS receiver.

Following completion of the test borings, the data will be reviewed and interpreted. A report of the findings will be presented to the NYSDEC along with recommendations for additional subsurface study, installation of monitoring/recovery wells, etc., if warranted.

Task 2 – Testing in Monitoring/Recovery Wells to Estimate LNAPL Transmissivity

As outlined in ASTM Method E2856-13, "LNAPL transmissivity is a directly proportional metric for LNAPL recoverability whereas other metrics such as apparent LNAPL thickness gauged in wells do not exhibit a consistent relationship to recoverability."

The goal of the proposed testing to be completed during this task will be to estimate transmissivity of LNAPL in existing wells for the purposes of assessing potential for future migration of LNAPL bodies, and to aid in the selection of future recovery methods for mobile LNAPL. Based on historic observations, it is anticipated that the following wells are suitable for evaluation via the test methods outlined in ASTM Method E2856-13:

- Recovery Well RW-1 – located in the OUII NAPL L4 Area;
- Monitoring Wells VE4-5, FA4-12, FA4-13, FA4-14, FA4-18 and potentially FA4-8– located in the OUII NAPL L4 Area; and
- Monitoring Well PGW-2 – located to the west of the OUII NAPL L4 Area.

Note: Depending on the results of Task 1, the above list may be modified or additional monitoring wells may be selected for transmissivity testing. Refer to Figure 2 for well locations.

Testing is proposed during the seasonal groundwater low period, which has been documented to occur during the late summer and early fall. Approximately 4 to 6 weeks prior to the start of the testing, it is proposed that accumulated LNAPL be removed from each of the monitoring/recovery wells, proposed for testing followed by development of the well using a surge block to assess the suitability of the monitoring well for transmissivity testing. Following these activities, LNAPL recovery efforts in the monitoring/recovery wells located in the OUII NAPL L4 Area, off-site LNAPL monitoring wells (i.e., OUII-A through OUII-F) and monitoring wells located to the west of the OUII NAPL L4 Area will be suspended. Static water levels and LNAPL thickness in each of above-listed monitoring/recovery wells will be monitored on a weekly basis to document a rebound of LNAPL to equilibrium conditions. One or more existing monitoring wells that has not historically contained significant quantities of LNAPL (e.g., VE4-1, OUII-E, VE4-12) will be selected as a control well(s), and monitored at the same frequency as the above-listed monitoring/recovery wells.

It is currently anticipated that the *Baildown/Slug Testing* method, outlined in Section 6.1 of ASTM Method E2856-13, will be utilized to estimate LNAPL Transmissivity. However, an alternate test method (e.g., *Manual Skimming*, outlined in Section 6.2 of ASTM Method E2856-13) may be selected for one or more of the above-listed monitoring wells if the equilibrium conditions observed at the time testing are not conducive to the *Baildown/Slug Testing* method (i.e., gauged LNAPL thickness of less than 0.2 ft).

Following completion of the testing described above and analysis of the data collected, a report of the findings will be presented to the NYSDEC, including recommendations for additional studies and/or proposed alternative methods for LNAPL recovery in the wells evaluated.

Schedule

The start date for Task 1will depend on availability of a drilling sub-contractor and completion of an access agreement between Metro-North Railroad and the off-site property owner. If necessary, test locations proposed on-site will be scheduled and conducted as an initial phase of work, followed by the off-site test locations once the access agreement between parties has been finalized.

It is proposed that the testing to estimate LNAPL transmissivity in the existing monitoring/recovery wells identified here-in be completed on, or around, September 1, 2023. As such, the well preparation and equilibrium monitoring activities would be initiated on or around July 15, 2023.

Should you have questions or require further information, please feel free to call.

Very truly yours,
Day Engineering, P.C.

Raymond L. Kampff
Principal

ATTACHMENTS

Figure 1 - Site Plan Depicting Proposed Test Locations

Figure 2 - OU-I and OU-II Well Locations

F:\Clients - M\MNR\Harmon Yard\Remediation Reports\Offsite OUII Remediation Work Plan\2022-08 Revision

Name	Ground Elevation	Area
OB-01	14.4	off-site
OB-02	17.0	off-site
OB-03	17.0	off-site
OB-04	18.0	off-site
OB-05	17.0	off-site
OB-06	17.0	off-site
OB-07	16.0	off-site
OB-08	14.0	off-site
OB-09	10.0	off-site
OB-10	13.4	off-site
OB-11	12.5	off-site
OB-12	12.5	off-site
OB-13	14.2	off-site
OB-14	11.5	off-site
OB-15	11.0	off-site
OB-16	10.5	off-site
OB-17	17.5	NAPL Area L4
OB-18	15.0	NAPL Area L4
OB-19	13.0	NAPL Area L4
OB-20	12.5	NAPL Area L4
OB-21	12.5	NAPL Area L4
OB-22	12.0	NAPL Area L4
OB-23	12.0	NAPL Area L4
OB-24	11.0	NAPL Area L4
OB-25	11.0	Onsite OUII
OB-26	18.1	NAPL Area L4
OB-27	18.5	NAPL Area L4
OB-28	18.6	Onsite OUII
OB-29	18.0	NAPL Area L4
OB-30	19.5	NAPL Area L4
OB-31	19.0	NAPL Area L4
OB-32	18.9	Onsite OUII

NOTES:

Aerial imagery provided by the NYSGIS Clearinghouse, dated 2021.

The topographic survey map overlay is sourced from a drawing titled "MNR Survey Plan", prepared by Gannett Fleming of New York, NY, dated April 7, 2011.

PROJECT MANAGER	RLK
DRAWN BY	CAH
SCALE	As Noted
DATE	08-2022
DATE DRAWN	08-2022
DATE ISSUED	08-30-2022

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

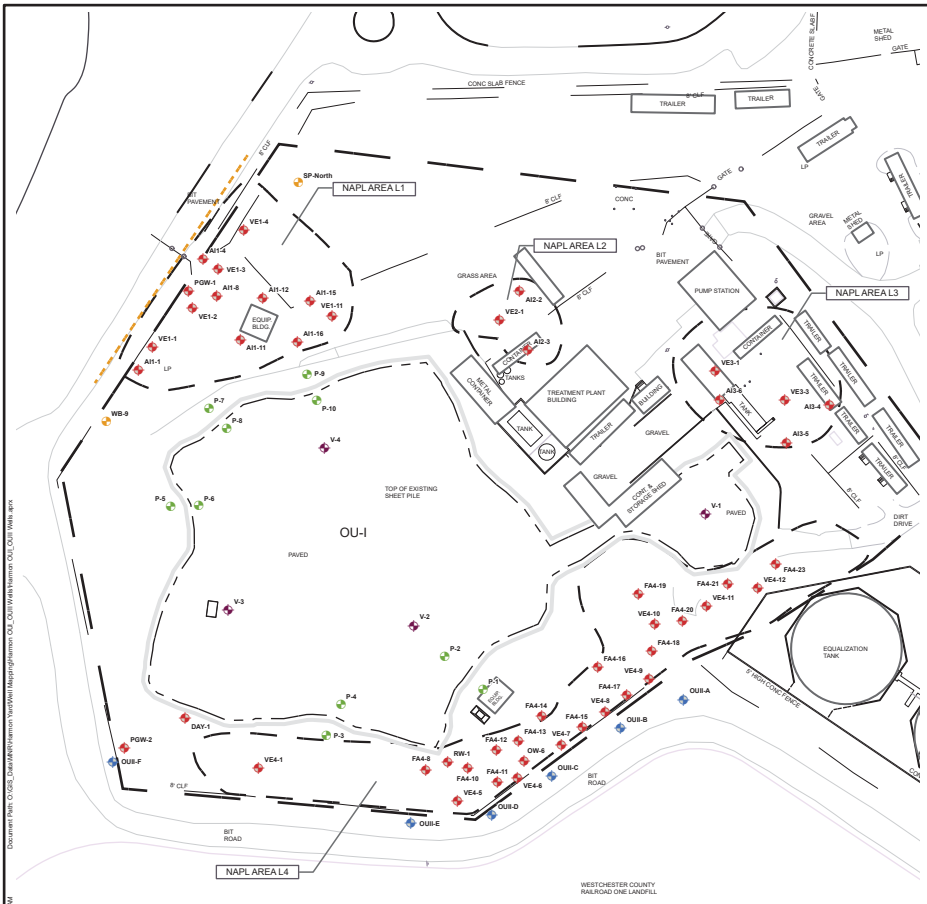
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OU I AND OUII
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO 360010

Drawing Title
Site Plan Depicting Proposed Test Locations

Project No.
22-3642M (018)

FIGURE 1

Last Date Saved: 31 Aug 2022 Document Path: O:\GIS_Data\MNR\Harmon Yard\Well Site Plans\Harmon Yard 20220824 - LNAPL Test Loc. Prop.mxd



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- V-1 — OU-I well within vault
- P-9 — Piezometer installed around OU-I/OU-II sheet pile wall
- VE4-6 — Well within OU-II
- OUII-A — Off-Site monitoring well
- SP-North — Monitoring well in terminus of sheet pile wall in NAPL Area L1
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	03-2022
DATE DRAWN	03-2022
DATE ISSUED	03-30-2022

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project No.
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

Drawing Title
OU-I and OU-II Well Locations

Project No.
22-3642M (018)

FIGURE 2

Document Path: O:\GIS_Data\MXD\Harmon Yard\Well Mapping\Harmon OU_OUII Wells Harmon OU_OUII Wells .aprx
Last Date Saved: 1/31/2023 9:40 AM

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Thursday, October 6, 2022 10:54 AM
To: Sara Gianazza
Cc: King, Justin; Hoskins, Matthew; Saucier, Sarah K (DEC); Robinson, Johnathan M (HEALTH); Sergott, Mark S (HEALTH)
Subject: Site No. 360010 Harmon RR Yard

Hi Sara,

Based on a site visit with you on September 1, 2022, it has come to the Department's attention that there potentially exists additional information regarding potential off-site migration of contamination. Previously, the Department was seeking that MNRR pursue additional measures to address this potential migration however based upon the site visit if you obtain the groundwater sampling data from the Former Croton Sanitary Landfill (FCPSL) and provide it to the department, this may adequately address our previous concerns. Based on a review of the applicable off-site data, the Department requests that MNRR provide conclusions and recommendations as to the presence/absence of site sourced NAPL in the direction of the landfill.

The Department requires a response and notice of intent from MNRR within five days from the date of this email. A letter report, outlining the results, conclusions, and recommendations of this requested interim supplemental action item is due to the Department within 60 days from the date of this letter. If MNRR encounters difficulty in obtaining the documents they seek from the FCPSL, please notify the Department. If you have any comments, questions, or concerns, please do not hesitate to contact me at 518-402-5987 or e-mail at brianna.scharf@dec.ny.gov.

Thanks,
Briana

Brianna Scharf
Assistant Engineer (Environmental)
(she/her/hers)
Division of Environmental Remediation, Remedial Bureau E, Remedial Section C
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7017
P: (518) 402-5987 | F: (518) 402-9819 | brianna.scharf@dec.ny.gov

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Tuesday, October 11, 2022 7:22 AM
To: Sara Gianazza
Cc: King, Justin; Hoskins, Matthew; Saucier, Sarah K (DEC); Sammon, Clare; Robinson, Johnathan M (HEALTH); Sergott, Mark S (HEALTH); Ray Kampff; Heather McLennan
Subject: RE: Site No. 360010 Harmon RR Yard

Great – thank you Sara.

From: Gianazza, Sara <Gianazza@mnr.org>
Sent: Monday, October 10, 2022 2:34 PM
To: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Cc: King, Justin <JKing@trccompanies.com>; Hoskins, Matthew <MHoskins@trccompanies.com>; Saucier, Sarah K (DEC) <Sarah.Saucier@dec.ny.gov>; Sammon, Clare <Sammon@mnr.org>; Robinson, Johnathan M (HEALTH) <Johnathan.Robinson@health.ny.gov>; Sergott, Mark S (HEALTH) <mark.sergott@health.ny.gov>; rkampff@daymail.net; hmclennan@daymail.net
Subject: RE: Site No. 360010 Harmon RR Yard

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Brianna,

Thank you for your email. We will work with the County to obtain the relevant ground water sampling data from the FCPSL and review and provide comments and analysis back to the department on or before 12/6/22.

Best,
Sara

Sara M. Gianazza, Esq.
Senior Manager
Environmental Compliance and Services

Metro-North Railroad
525 North Broadway, 2nd Fl., White Plains, NY 10603
Phone: 914-461-0591 **Mobile:** 917-743-6126
Email: Gianazza@mnr.org

Metro-North Railroad

From: Scharf, Brianna L (DEC) <Brianna.Scharf@dec.ny.gov>
Sent: Thursday, October 6, 2022 10:54 AM
To: Gianazza, Sara <Gianazza@mnr.org>

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E
625 Broadway, 12th Floor, Albany, NY 12233-7017
P: (518) 402-9813 I F: (518) 402-9819
www.dec.ny.gov

December 19, 2022

Sent via e-mail
Gianazza@mnr.org
Sara M. Gianazza, Esq.
Senior Manager
Department of Environmental Compliance and Services
Metro-North Railroad
420 Lexington Avenue
New York, New York 10170

Re: Site Management (SM) Periodic Review Report (PRR) Acceptance Letter
Harmon Railroad Yard, Croton-on-Hudson
Westchester County, Site No.: 360010

Dear Sara Gianazza,

The Department has reviewed your Periodic Review Report (PRR) and IC/EC for the following period: January 1, 2019 through January 1, 2022.

The Department conditionally accepts the PRR and associated Certification pending the resolution of the comments provided below:

- Please provide the data from the desktop study of the off-site groundwater monitoring wells that are part of the Westchester County Railroad One Landfill. A letter was sent to Westchester County by the Department on December 9, 2022.
- Neither the PRR nor the attached Site Management Plan Status Reports indicate if proper field and laboratory quality assurance/quality control (QA/QC) samples were collected. Additionally, no data evaluation or data usability summary reports (DUSRs) are provided. Please confirm that proper QAQC samples were collected and provide data evaluation and/or DUSRs for the applicable analytical data with any PRR revision.
- Please submit the final EQuIS electronic data deliverables (EDDs) to the Department's EIMS Data Team at NYENVDATA@dec.ny.gov.
- The x-axis is missing from the set of Figure 7 figures. Please include complete Figure 7's with any PRR revision.
- Please provide photographic documentation of the site and the NAPL recovery system as part of PRRs moving forward.

Please submit a Revised PRR addressing the Department's comments above within 30 days following the date of this letter.

If you have any questions, or need additional forms, please contact me at 518-402-5987 or email: Brianna.scharf@dec.ny.gov.

Sincerely,

Brianna Scharf
Project Manager
Bureau E, Section C
Division of Environmental Remediation

ec: Brianna Scharf, NYSDEC
Sarah Saucier, NYSDEC
Mark Sergott, NYSDOH PM
Justin King, TRC PM
Matthew Hoskins, TRC

Site No. 360010 Harmon Railroad Next Steps

Reply | Reply All | Forward | ...

Gianazza, Sara <Gianazza@mnr.org>
To Scharf, Brianna L (DEC)
Cc King, Justin; Gardner, Nathan; Ray Kampff; Heather McLennan; Charles Hampton; Kuebler, Kevin

Fri 6/21/2024 8:14 AM

HW360010 - LNAPL Evaluation Work Plan - OUII-L4 - 2024-06-14.pdf
21 MB

HW360010 - OUII - L1 NAPL Area - LNAPL Evaluation and Remediation Summary - 2024-06-17.pdf
2 MB

[USE CAUTION: This email originated from outside of the organization]

Good morning Brianna,

A copy of a work plan, prepared by Day Engineering, P.C. (DAY), that describes the activities proposed to evaluate LNAPL at (and in the vicinity of) the Harmon Yard OU-II L4 area is attached to this email. Following the Department's approval of this work plan and receipt of access permission from the adjacent property owners, Metro-North Railroad intends to complete the scope of work in accordance with the schedule provided in Section 4. Note: On May 31, 2024, Metro-North Railroad contacted the adjacent property owners (i.e., Village of Harmon on Croton and Westchester County), and provided a description of the proposed work to be completed on these adjacent properties and requested access to complete this work. While a response from Westchester County has not yet been received, the Village of Harmon-on-Croton requested that Metro-North Railroad complete an access agreement.. This access agreement was prepared and sent the Village of Harmon-on-Croton on June 12, 2024, and we are awaiting approval of this agreement.

To address questions raised during the May 2, 2024, telephone conference call, a document describing historic conditions within the OU-II NAPL L1 area and impacts on the adjacent Half Moon Bay property was prepared by DAY. A copy of this document is also attached to this email. The purpose of providing this summary is to document site conditions and work completed to address LNAPL that may have migrated off-site in the L1 area, such that no additional work is required in this area.

Please contact my office with questions or comments.

Sara

Sara M. Gianazza, Esq.
Senior Manager
Environmental Compliance and Services

Metro-North Railroad
525 North Broadway, 2nd Fl., White Plains, NY 10603
Phone: 914-461-0591 **Mobile:** 917-743-6126
Email: Gianazza@mnr.org

Metro-North Railroad

LNAPL EVALUATION WORK PLAN
OPERATIONAL UNIT II – L4 NAPL AREA
HARMON RAILROAD YARD
WESTCHESTER COUNTY, NEW YORK
NYSDEC SITE NO. 3-60-010

Prepared For: Metro-North Railroad
525 North Broadway
White Plains, New York 10603

Prepared By: Day Engineering, P.C.
1563 Lyell Avenue
Rochester, New York 14606

Project No.: 23-3690M

Date: June 2024

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FIGURES

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Figure 2: OU-I & OU-II Site Plan
Figure 3: Site Plan Depicting Former Locations of Temporary Monitoring Wells, Installed for RI/FS Studies
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Figure 6: Site Plan Depicting Proposed Test Boring Locations

APPENDICES

Appendix A: Health and Safety Plan and CAMP
Appendix B: OU-II Off-Site Well Hydrographs – October 1, 2016 through March 26, 2024
Appendix C: Railroad I/ Croton Point Sanitary Landfill Subsurface Monitoring Data Provided by Westchester County on January 5, 2023
Appendix D: Overview of Optical Image Profiler (OIP) Direct Push Drill Tooling, presented by Cascade Drilling

1.0 INTRODUCTION

This Work Plan (WP), prepared by Day Engineering, P.C. (DAY) on behalf of Metro-North Railroad (MNR), describes methods proposed to assess the location and amount of residual Light Non-Aqueous Phase Liquid (LNAPL) remaining at, and in the vicinity of, Operational Unit II (OU-II) of the New York State Department of Environmental Conservation (NYSDEC) State Superfund Site No. 3-60-010 (i.e., designated Harmon Railroad Yard Waste Water area). OU-II is located at the MNR Harmon Railroad Yard facility in the Village of Croton-on-Hudson, Westchester County, New York. A project locus map is presented as Figure 1.

OU-II contains four LNAPL areas (designated L1 through L4) surrounding a former wastewater treatment equalization lagoon (i.e., the OU-I component of NYSDEC Site No. 3-60-010). The combined OU-I and OU-II area comprises 5.087 acres located on the western-most portion of the MNR Harmon Railroad Yard. OU-I and OU-II are bound to the south by Croton Point Park (formerly a portion of the Croton Point Sanitary Landfill designated "Railroad I Unit", a closed and capped solid waste landfill), to the west by an access road to the Half Moon Bay residential development (Half Moon Bay Townhouses) followed by the Hudson River, to the north by Half Moon Bay Townhouses and to the east by the remainder of the Harmon Railroad Yard. The L4 NAPL area is approximately 0.6 acres in size, and it is located in the southeast quadrant of OU-II.

Remedial actions have been completed at OU-I and OU-II, and a Site Management Plan (SMP) has been prepared and approved by the NYSDEC. As required by the SMP, monitoring and removal of LNAPL from select locations within OU-II is on-going. SMP status reports are submitted to the NYSDEC quarterly and Periodic Review Reports (PRR) are submitted to the NYSDEC every three years. These reports document the work completed, problems encountered and the status of the remediation. As documented in the SMP Status reports and PRR, LNAPL is present in off-site wells (designated OUII-A, OUII-B, OUII-D, OUII-E and OUII-F) installed in proximity of the L4 NAPL area. A Site Plan presenting the location of monitoring wells within the L4 NAPL area and the off-site monitoring wells is included as Figure 2.

1.1 Purpose

The objectives of the work described herein are to:

1. assess the current vertical and areal extent of residual LNAPL in select areas of OU-II L4 and on the adjacent properties to the south (i.e., portions of Half Moon Bay Drive owned/maintained by the Village of Croton-on Harmon and portions of Croton Point Park owned by Westchester County), and

2. estimate transmissivity of LNAPL in select OU-II L4 area wells for the purposes of assessing potential for future migration of LNAPL bodies, and to aid in the selection of future recovery methods for mobile LNAPL.

The data collected will be used to identify corrective measures pursuant to their implementation to address the off-site LNAPL identified in the vicinity of OU-II L4 NAPL area.

1.2 Health and Safety Plan

A copy of the site-specific Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP) are included in Appendix A. These plans will be implemented during completion of WP activities, which have the potential to encounter/release contaminants of concern.

1.3 Applicable Project Standards, Criteria and Guidance

Based on the contaminants identified at the Site and the NYSDEC requirements, the applicable Standards, Criteria and Guidance (SCG) values that will be used for this project are outlined below:

- Guidelines referenced in NYSDEC document titled "DER-10 Technical Guidance for Site Investigation and Remediation", dated May 2010 (DER-10).

- NYSDEC Technical and Operational Series (TOGS) 1.1.1 document tilted "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", updated 1998, 1999, 2000 and 2004.

- Soil Cleanup Objectives (SCO) and other guidance as set forth in 6 NYCRR Part 375-4 Environmental Restoration Program dated December 14, 2006.

- Solid waste characterization as set forth in 6 NYCRR Part 371.4(e) - Wastes Containing Polychlorinated Biphenyls (PCBs).

- ASTM International Standard Guide for Estimation of LNAPL Transmissivity Designation: E2856 − 13 (Reapproved 2021)

2.0 BACKGROUND

This section describes previous studies and work completed at the Site relative to the proposed additional studies described herein. In addition, a conceptual site model is presented based upon available information.

2.1 Previous Studies

Various studies were undertaken to characterize the nature and extent of contamination at Site No. 3-60-010. The results of these studies are described in detail in the following reports:

- Remedial Investigation Report, Harmon Lagoon – Fred C. Hart Associates, Inc., November 27, 1989

- Remedial Investigation/Feasibility Study (RI/FS) Report, Harmon Railroad Yard Wastewater Treatment Area, Operable Unit II, NYSDEC Site No.: 3-60-010 – ERM-Northeast, January 24, 1997

The 1997 RI/FS report prepared by ERM-Northeast included the installation of temporary off-site monitoring wells downgradient of the L4 NAPL area. Five of the eight wells installed nearest OU-II (i.e., designated OS-B through OS-F, located on the north side of the access road way between OU-II and Croton Point Park) contained LNAPL. However, the two temporary off-site wells located further to the west on the north side of the road way (i.e., designated OS-G and OS-H) and six temporary off-site wells located on the south side of the road way (i.e., designated OS-I through OS-M and OS-FS, located nearest to Croton Point Park) did not contain LNAPL. A Site Plan that includes the location of the temporary monitoring wells installed as part of the studies completed for the RI/FS is included as Figure 3.

During monitoring completed in 2002, approximately 4 feet of LNAPL was encountered in a monitoring well installed in the L4 NAPL area (i.e., PGW-2). In response to this finding, nine temporary wells (designated TW-1 through TW-9) were installed in proximity of PGW-2. LNAPL was identified in temporary wells TW-5 and TW-6 (located in proximity of the fence that surrounds OU-II) and in TW-7 (located to the east of PGW-2). However, LNAPL was not detected in temporary wells TW-1, TW-2 or TW-3, located on the western side of the road way between OU-II and the Croton Point Park. A memorandum prepared by ERM Northeast, dated March 14, 2002, which summarized the work completed concluded, *"The NAPL delineation activities indicate that the NAPL in the vicinity of PGW-2 is localized and does not appear to be contiguous with the L4 NAPL area."* A Site Plan showing the location of PGW-2 and the temporary monitoring wells installed in proximity of PGW-2 is included as Figure 4.

2.2 Off-Site Monitoring Wells Installed in 2016

Based on the consistent presence of LNAPL in several monitoring wells located in proximity of the southern boundary of OU-II observed during periodic SMP monitoring events, and the presence of LNAPL in the temporary off-site monitoring wells described above, the need for off-site monitoring wells was identified. The purpose of these off-site monitoring wells was to evaluate if LNAPL was present away from the Site, and assess the need for additional remediation to preclude possible migration. To this end, MNR met, and reached a consensus with, the adjacent property owner (i.e.,

Village of Croton-on-Harmon) on an access agreement to install off-site monitoring wells, and off-site monitoring wells (designated OUII-A through OUII-F) were installed between September 20, 2016 and September 22, 2016 (refer to Figure 2). These off-site monitoring wells are constructed of 1-inch inside diameter (ID) PVC well screens that extend from around elevation 10 ft. to -5 ft. above mean sea level (AMSL) (i.e., OUII-A through OUII-E), or around elevation 7 ft. to -8 ft. AMSL (i.e., OUII-F), connected to 1-inch ID solid PVC risers that extend to the ground surface.

During the weekly monitoring, conducted starting on October 1, 2016, free product has been observed in monitoring wells OUII-A, OUII-B, OUII-D, OUII-E, and OUII-F. [Note: LNAPL was detected/measured in monitoring well OUII-C during only four of the 364 monitoring events conducted in the well since October 1, 2016. Further, the thickness of LNAPL measured during these detections equaled 0.01 ft., which is the minimum measurement that the oil-water interface meter is capable of making. Thus, it is concluded that, if present, the trace amount of LNAPL present in this well is not significant with respect to the corrective measures described here-in.] The thickness of LNAPL observed in the off-site wells varied with changes in the static water level (i.e., increased amounts of LNAPL were typically evident when the static water level decreased). The frequency at which LNAPL was detected, as well as the thickness of the of LNAPL observed, was greater in monitoring wells OUII-D and OUII-B than in monitoring wells OUII-A and OUII-F over this approximate 7.5 year period. Prior to February 1, 2023, LNAPL was not observed in monitoring well OUII-E. However, LNAPL has been detected in monitoring well OUII-E during seven of the 58 weekly monitoring events that have been completed since February 1, 2023, and LNAPL was measured in excess of 0.01 ft during two of these seven detection events. Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well for data collected between October 1, 2016 and March 26, 2024 are included in Appendix B.

2.3 Croton Point Sanitary Landfill

Based on information contained in the March 1993 Record of Decision (ROD) prepared by the NYSDEC for State Superfund Site No. 3-60-001, an approximate 142-acre area located to the west and south of OU-II, which is currently utilized as Croton Point Park, was formerly the Croton Point Sanitary Landfill (CPSL). This closed landfill, operated for nearly 60 years beginning in 1927, was the primary municipal waste landfill for Westchester County. The landfill is described as comprised of three units, of which the contiguous 96-acre "Original Fill Area" unit and the 18.5-acre "Ballfield Cell" unit make up NYSDEC Site No. 3-60-001. The third landfill unit, designated the "Railroad I" Unit is described in a summary of the operational history of the CPSL, (i.e., included in Section 1 of the Operation and Maintenance Plan for NYSDEC Site No. 3-60-001 prepared by Savin Engineers, P.C., dated July 10, 1996) as *"an 18-acre lined landfill with a combination synthetic top and clay-side liner and a leachate collection system…(which) operated from 1976 until 1982…(and) received only municipal solid waste"*. The Operation and Maintenance Plan states that the "Railroad I" Unit was constructed to provide interim solid waste management capacity. The ROD states that the Railroad I" Unit, "has already complied with closure requirements in place at the time it closed in the early 1980's." The "Railroad I" Unit is located adjacent to the south and west of OU-II, and NYSDEC Site No. 3-60-001 is located approximately 1,300 feet south/southwest of OU-II NAPL area L4. Monitoring wells and surface water sample locations associated with the landfill are located on the south side of the access road that separates the landfill and OU-II (i.e., the nearest monitoring point is located about 1,400 feet southeast of the OU-II property line). A Site Plan

showing the approximate extent of the former CPSL and depicting the locations of monitoring wells and surface water samples is included as Figure 5.

MNR received information from Westchester County on January 5, 2023 regarding groundwater conditions at the Former CPSL "Railroad I Unit". Copies of the documents provided by Westchester County, which are presented as Appendix C, include analytical laboratory test results for groundwater samples collected in 2018, 2020, 2021, and 2022; and the sampling logs for groundwater samples collected in 2022. [Note: The sampling logs did not indicate the presence of LNAPL or the indication of unusual odors in any of the sampled wells.] The information provided included a figure titled "Environmental Sampling and Locations Map for Croton & Railroad Sanitary Landfills", from which select monitoring locations are depicted on Figure 5. Based on a review of this figure the landfill monitoring wells located in proximity of OU-I/OU-II NAPL area include monitoring wells designated MWRR-2S and MWRR-2D, which are located approximately 200 feet north-northwest of off-site well OU-II F; monitoring well MWRR-3, which is located approximately 50 feet south of the fueling station located at Harmon Yard; MWRR-4, which is located approximately 160 feet southeast of MNR off-site monitoring well OUII-F; and, MWRR-5, which is located about 800 feet southeast of monitoring well VE4-11 in the Harmon OU-I/OU-II area. [Note: Monitoring well MWRR-4 is located approximately 40 feet south of the central portion of NAPL area L4.] The landfill "Pumping Station No. 2" (i.e., identified as the leachate sampling location in the figure legend) is located about 150 feet south of MWRR-5.

Surface water sampling logs were also provided for locations identified as Surface Water Sampling Location, which is approximately 250 feet west of Harmon NAPL area L4; Public Beach, located approximately 0.5 mile southwest of Harmon NAPL area L4; Tellers Point, located approximately 1.1 mile south of south of Harmon NAPL area L4; and, Eastern Drainage Channel, located approximately 0.4 mile southeast of Harmon NAPL area L4. The surface water samples collected from the Public Beach location are reported as "No odor, clearish". The surface water samples collected from the remaining three locations are reported as "Yellow, no odor". Petroleum impacts (e.g., the presence of free product, petroleum odors, etc.) were not identified for any of the surface water samples.

The groundwater testing program included Target Analyte List (TAL)-23 metals and Target Compound List (TCL) VOCs. The laboratory testing completed on leachate samples collected from a RR sump (assumed to be Pumping Station No. 2) in 2018, 2020, 2021, and 2022 included metals, Total Petroleum Hydrocarbons (TPH), PCBs, and VOCs.

Table A, which is included in the documents provided by Westchester County (refer to Attachment C), provides a summary of detected VOCs in the groundwater samples collected from monitoring wells MWRR-2S, MWRR-2D, MWRR-3, MWRR-4, and MWRR-5 between 2018 and 2022. This table also includes a comparison to groundwater standards or guidance values as referenced in TOGS 1.1.1. As shown in Table A, various VOCs were detected in the groundwater samples collected from monitoring wells MWRR-2S and MWRR-2D (i.e., 1,2-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethane, isopropylbenzene, methyl tert butyl ether, naphthalene, and sec-butylbenzene). The concentrations of 1,2-dichlorobenzene, benzene, and chlorobenzene were detected at concentrations greater than the TOGS 1.1.1 groundwater standard or guidance value during one or more monitoring event in samples collected from monitoring wells MWRR-2S and MWRR-2D. VOCs were not detected in the samples collected from wells MWRR-3, MWRR-4, and MWRR-5 (i.e., except for one detection of MTBE in a sample collected from MWRR-3). PCBs

were not detected in the sample collected from the RR sump (assumed to be Pumping Station No. 2). Non-polar extractable material (TPH) was detected in the RR sump samples collected in 2021 and 2022 at concentrations of 6.82 milligrams per liter (mg/L) or parts per million (ppm) and 2.57 ppm, respectively.

2.4 Conceptual Site Model

The following description of the geology of the OU-II area is a summary of information presented in Section 1.2.3.1 of the 1997 RI/FS report prepared by ERM-Northeast: "*Croton Point is approximately two miles long and it extends south into the Hudson River. Harmon Yard and OU-I/OU-II are located on the northwestern edge of the Croton Point peninsula (refer to Figure 1 and Figure 5). The geologic origin of Croton Point dates back 10,000 years to a river delta comprised of sediments of sand, silt and clay that were deposited in a post-glacial lake. The stratigraphy of the peninsula consists of bedrock overlain by lacustrine silts and clays, deltaic silts and clays and deltaic sands. These soils are typical of those developed by glacial outwash. Historic sand hills up to 60 feet high once occupied the peninsula and these hills were removed over time by mining operations and to prepare the Site and Harmon Yard for railroad operations. The soils encountered during RI/FS drilling activities were uniform across the Site. The soils consist primarily of brown very fine to coarse sands and gravels. Bedrock was not encountered (during RI/FS drilling activities), which extended to a maximum of approximately 16 feet below grade. Based on test boring data reported by others, the depth to bedrock is thought to exceed 200 feet in the vicinity of OU-II."*

A sheeting wall was installed around the perimeter of the OU-I area as part of the remedial actions completed in 1995 to address subsurface impacts. The sheeting consists of approximately 1,400 linear feet of continuous Z-type interlocking sheet pile installed starting just below the asphalt pavement to a depth of approximately 16 ft. below the asphalt pavement (i.e., around elevation 3 ft. AMSL). Two continuous layers of 40 mil HDPE geomembrane (i.e., located around elevation 9 ft AMSL and around 17 ft AMSL) are installed in the backfill (i.e., between soil layers) within the perimeter of the sheeting wall. The OU-I area is capped by asphalt pavement, creating a horizontal and vertical barrier to migration of fluids (e.g., LNAPL, stormwater infiltration, groundwater migration, etc.) through the OU-I area.

The 1994 Stipulation of Discontinuance for NYSDEC Site No. Site No.: 3-60-010 defines the LNAPL component of OU-II (i.e., NAPL areas L1 through L4) as the separate hydrocarbon layer resulting from past releases from the former wastewater equalization lagoon, which is present on the water table surface and extends hydrologically downgradient of the lagoon (i.e., OU-I). Although these four areas are located around the former lagoon, they were all considered to be downgradient of the lagoon, due to the radial ground water flow patterns that existed during the operation of the lagoon (i.e., prior to the installation of the sheeting wall and the cap construction completed to address OU-I impacts). However, following the closure of OU-I measurement of groundwater elevations made for the 1997 RI/FS indicated that the direction of groundwater flow across the OU-II area was generally toward the northwest, and that the direction of groundwater flow across the L4 NAPL area was toward the former lagoon. The 1997 RI/FS report concluded, "*NAPL (in the L4 NAPL area) probably moved (southeast) in response to hydraulic influences when the former lagoon was open. Now that the former lagoon is closed, to the extent NAPL can migrate, the direction would be toward the northwest."*

3.0 PROPOSED EVALUATION WORK

This section describes the evaluation work proposed to further assess the LNAPL identified in off-site well locations (i.e., OUII-A, OUII-B, OUII-D, OUII-E and OUII-F). This work will be completed in general accordance with provisions and guidance outlined in NYSDEC DER-10, and will include regular communication with the NYSDEC and submittal of status reports.

3.1 Access Agreement

Permission to conduct the subsurface study described below on properties that are adjacent to south and southwest of OU-II will be requested from the property owners (i.e., the Village of Croton-on-Harmon and Westchester County). Completion of the proposed corrective measures will be contingent on an access agreement between MNR and these property owners.

3.2 Subsurface Study Utilizing Optical Image Tooling to Identify LNAPL via Induced Fluorescence

A subsurface study is proposed for the purpose of assessing the extent of residual LNAPL in the following areas:

1. The L4 NAPL area,
2. on-site areas immediately to the west of the L4 NAPL area (i.e., the vicinity of monitoring wells DAY-1 and PGW-2),
3. areas of documented off-site impact (i.e., in proximity of off-site monitoring wells OUII-A through OUII-E, and in proximity of off-site monitoring well OUII-F), and
4. areas of potential off-site impact, including areas located to the east and southeast of off-site monitoring wells OUII-A through OUII-D, the area located between, and to the south of, off-site monitoring wells OUII-E and OUII-F, and areas located to the southwest and west of monitoring wells PGW-2 and OUII-F.

The goals of the subsurface study will be to:

- determine the presence and vertical extent of LNAPL at each test location,
- estimate the areal extent of LNAPL between test locations, and
- identify geologic units that may be constraining/aiding LNAPL recovery (e.g., confining layers or perched conditions).

The information collected during the proposed subsurface study will be used to:

- determine areas for potential future LNAPL recovery (e.g., placement of additional recovery wells), as necessary,
- aid in determination of LNAPL migration (e.g., offsite toward south, southeast, west and/or southwest), if occurring, and
- produce a qualitative assessment of residual LNAPL bodies, that can be compared to past studies (i.e., conducted circa 1995-2000) to gauge the progress of LNAPL recovery completed to date, and required in the future.

Proposed locations for 32 test borings arranged in four roughly-parallel transects are depicted on the attached Figure 6 and described below.

1. Proposed off-site test borings, designated OB-01 through OB-09, are depicted along the Croton-Point Park pedestrian path, generally 50+ feet (ft.) from the Harmon Railroad Yard boundary, and (except for proposed test boring OB-1) are located to the south of the access road to the Half-Moon Bay Town Houses.
2. Proposed off-site test borings, designated OB-10 through OB-16, are depicted along the line of the existing off-site monitoring wells (i.e., OUII-A through OUII-F), and (except for proposed test boring OB-16) are located to the north of the access road to the Half-Moon Bay Town Houses.
3. Proposed on-site test borings, designated OB-17 through OB-25, are depicted along the bottom of the slope within the L4 NAPL area boundary and extending west to the vicinity of monitoring well PGW-2.
4. Proposed on-site test borings, designated OB-26 through OB-32, are depicted along the top of slope, within and or adjacent to the L4 NAPL area boundary and extending west to the vicinity of monitoring well DAY-1. Proposed on-site test borings OB-26 through OB-32 are also located in proximity to the southern edge of the sheet-pile wall installed around OU-I.

The spacing between the proposed test borings (along each transect) is generally about 75 ft., except between proposed on-site test borings OB-20 through OB-23 which are spaced about 50 ft. apart, to account for the turn in the OU-II/Harmon Railroad Yard site boundary. The estimated ground surface elevation for each proposed boring location is depicted in tabular format on Figure 6.

Note: The estimated ground surface elevations for proposed on-site test borings, and offsite locations located in near proximity to the access road to the Half-Moon Bay Town Houses, are based on a topographic survey map of the Harmon Railroad Yard titled *MNR Survey Plan*, prepared by Gannett Fleming of New York, NY, dated April 7, 2011. The estimated ground surface elevations for proposed off-site test borings (for locations along the Croton-Point Park pedestrian path) are based on the 2-ft contour interval data on the Westchester County mapping webpage https://giswww.westchestergov.com/GISMap/index.html

The test borings will be advanced using direct-push drilling methods to advance optical logging tools into the subsurface. It is anticipated that the optical logging tool utilized will be the Optical Image Profiler (OIP) System developed by Geoprobe Systems®, or similar. This tool utilizes an ultraviolet or laser light source to induce fluorescence of residual LNAPL, in conjunction with a camera to capture the fluorescent light signature, and are typically equipped with an electrical conductivity (EC) sensor, which is used to interpret the relative grain size of the overburden materials. Additional information on the OIP System is presented in Appendix D.

It is proposed that each test boring will be advanced to an elevation of mean sea level (MSL). As such, based on the estimated ground surface elevations presented on Figure 1, the depths of the proposed test borings will range between approximately 10.5 ft. below ground surface (bgs) and 19.5 ft. bgs. Test borings in which evidence of LNAPL is observed at MSL at the time of

drilling (i.e., based on real time data, measuring percent area of fluorescence) will be extended an additional 5 to 10 ft. into the subsurface.

Prior to advancement of the test borings described above, the proposed test locations will be marked in the field and cleared for drilling (i.e., assessed for the presence of buried utilities, 'hand cleared' in accordance with railroad policies and procedures, etc.). The ground surface elevation at each point will subsequently be measured using a laser level, and located in relation to existing site features and with a GPS receiver.

3.3 Testing in Monitoring/Recovery Wells to Estimate LNAPL Transmissivity

As outlined in ASTM Method E2856-13, *"LNAPL transmissivity is a directly proportional metric for LNAPL recoverability whereas other metrics such as apparent LNAPL thickness gauged in wells do not exhibit a consistent relationship to recoverability."*

The goal of the proposed testing to be completed during this task will be to estimate transmissivity of LNAPL in existing wells for the purpose of assessing potential for future migration of LNAPL bodies, and to aid in the selection of future recovery methods for mobile LNAPL. Based on historic observations, it is anticipated that the following wells are suitable for evaluation via the test methods outlined in ASTM Method E2856-13:

- Recovery Well RW-1 – located in the OU-II NAPL L4 area;
- Monitoring Wells VE4-5, FA4-12, FA4-13, FA4-14, FA4-18 and potentially FA4-8– located in the OU-II NAPL L4 area; and
- Monitoring Well PGW-2 – located to the west of the OU-II NAPL L4 area.

Note: Depending on the results of the work described in Section 3.2, the above list may be modified or additional monitoring wells may be selected for transmissivity testing. Refer to Figure 2 for well locations.

Testing is proposed during the seasonal groundwater low period, which has been documented to occur during the late summer and early fall. Approximately 4 to 6 weeks prior to the start of the testing, accumulated LNAPL will be removed from each of the monitoring/recovery wells, proposed for testing followed by development of the well using a surge block to assess the suitability of the monitoring well for transmissivity testing. Following these activities, LNAPL recovery efforts in the monitoring/recovery wells located within OU-II and off-site monitoring wells OUII-A through OUII-F will be suspended. Static water levels and LNAPL thickness in each of above-listed monitoring/recovery wells will be monitored on a weekly basis to document a rebound of LNAPL to equilibrium conditions. One or more existing monitoring wells that has not historically contained significant quantities of LNAPL (e.g., VE4-1, OUII-E, VE4-12) will be selected as a control well(s), and monitored at the same frequency as the above-listed monitoring/recovery wells.

It is currently anticipated that the *Baildown/Slug Testing* method, outlined in Section 6.1 of ASTM Method E2856-13, will be utilized to estimate LNAPL Transmissivity. However, an alternate test method (e.g., *Manual Skimming*, outlined in Section 6.2 of ASTM Method E2856-13) may be selected for one or more of the above-listed monitoring wells if the equilibrium

conditions observed at the time testing are not conducive to the *Baildown/Slug Testing* method (i.e., gauged LNAPL thickness of less than 0.2 ft).

4.0 SCHEDULE AND DELIVERABLES

The proposed evaluation work schedule and deliverables for the activities described in this WP are as follows:

4.1 Schedule

Task	Anticipated Duration	Anticipated Completion/Submission Date
3.1 - Access agreements for off-site evaluation work	6 months	**TBD**
3.2 - Subsurface study – onsite test boring locations		
Retain drilling subcontractor and advance optical test borings (designated OB-17 through OB-32)	2 weeks	Within 6 weeks of WP acceptance by NYSDEC
Evaluation of data, recommendation for additional delineation	4 weeks	Within 10 weeks of WP acceptance by NYSDEC
3.2 - Subsurface study – offsite test boring locations		
Retain drilling subcontractor and advance optical test borings (designated OB-1 through OB-16)	2 weeks	Within 6 weeks of Access Agreements
Evaluation of data, recommendation for additional delineation	4 weeks	Within 10 weeks of Access Agreements
3.3 - Transmissivity Testing		
Prepare monitoring/recovery wells for testing by removing LNAPL and re-development using surge block	1 Week	On/around August 15, 2024 or within 3 weeks of WP acceptance by NYSDEC (if after 8/1/24)
Complete LNAPL transmissivity tests in recovery/monitoring wells: RW-1, VE4-5, FA4-12, FA4-13, FA4-14, FA4-18, PGW-2, and potentially FA4-8	TBD	On/around December 1, 2024 or within 16 weeks of WP acceptance by NYSDEC (if after 8/1/24)

4.2 Status Reports and CMWP

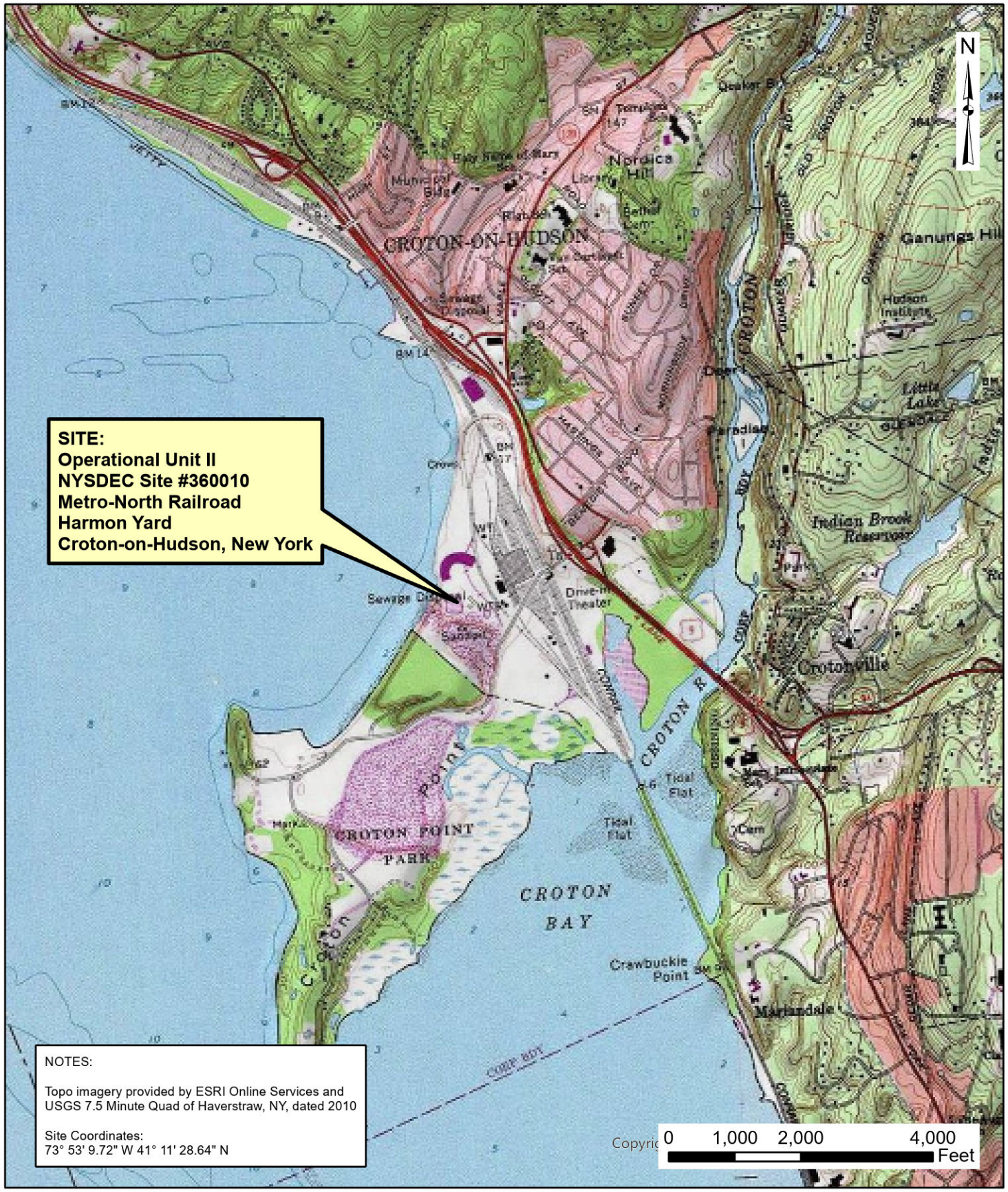
Following completion of the test borings described in Section 3.2, the data will be reviewed and interpreted. A report of the findings will be presented to the NYSDEC along with recommendations for additional subsurface study, installation of monitoring/recovery wells, etc., if warranted.

Following completion of the testing described in Section 3.3 and analysis of the data collected, a report of the findings will be presented to the NYSDEC, including recommendations for additional studies and/or proposed alternative methods for LNAPL recovery in the wells evaluated.

The status of the access agreements and subsequently the status of the evaluation work proposed in Section 3.2 and Section 3.3 will be summarized in the quarterly Site Management Plan Status Reports, which are prepared for Site No. 3-60-010.

Based on the findings of the evaluation work proposed here-in, a Corrective Measures Work Plan (CMWP) will be prepared (if necessary) to address migration of LNAPL away from the L4 NAPL area.

FIGURES



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Last Date Saved: 5/6/2024 3:37 PM

Date: 05-06-2024 Drawn By: CAH Scale: AS NOTED	**DAY ENGINEERING, P.C.** Environmental Engineering Consultants Rochester, New York 14606	Project Title: NYSDEC SITE #360010 METRO-NORTH RAILROAD HARMON YARD CROTON-ON-HUDSON, NEW YORK Drawing Title: Project Locus Map	Project No.: 23-3690M FIGURE 1

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

V-1	OU-I well within vault
P-9	Piezometer installed around OU-I/OU-II sheet pile wall
VE4-6	Well within OU-II
OUII-A	Off-Site monitoring well
SP-North	Monitoring well in terminus of sheet pile wall in NAPL Area L1

OU-II NAPL area boundaries

Approximate location of sheet pile wall around remediated former lagoon area (OU-I)

Approximate location of L1 sheet pile wall

Extent of OU-I final cover system

OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	03-2022
DATE DRAWN	03-2022
DATE ISSUED	03-30-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

Drawing Title
OU-I and OU-II Site Plan

Project No.
23-3690M

FIGURE 2

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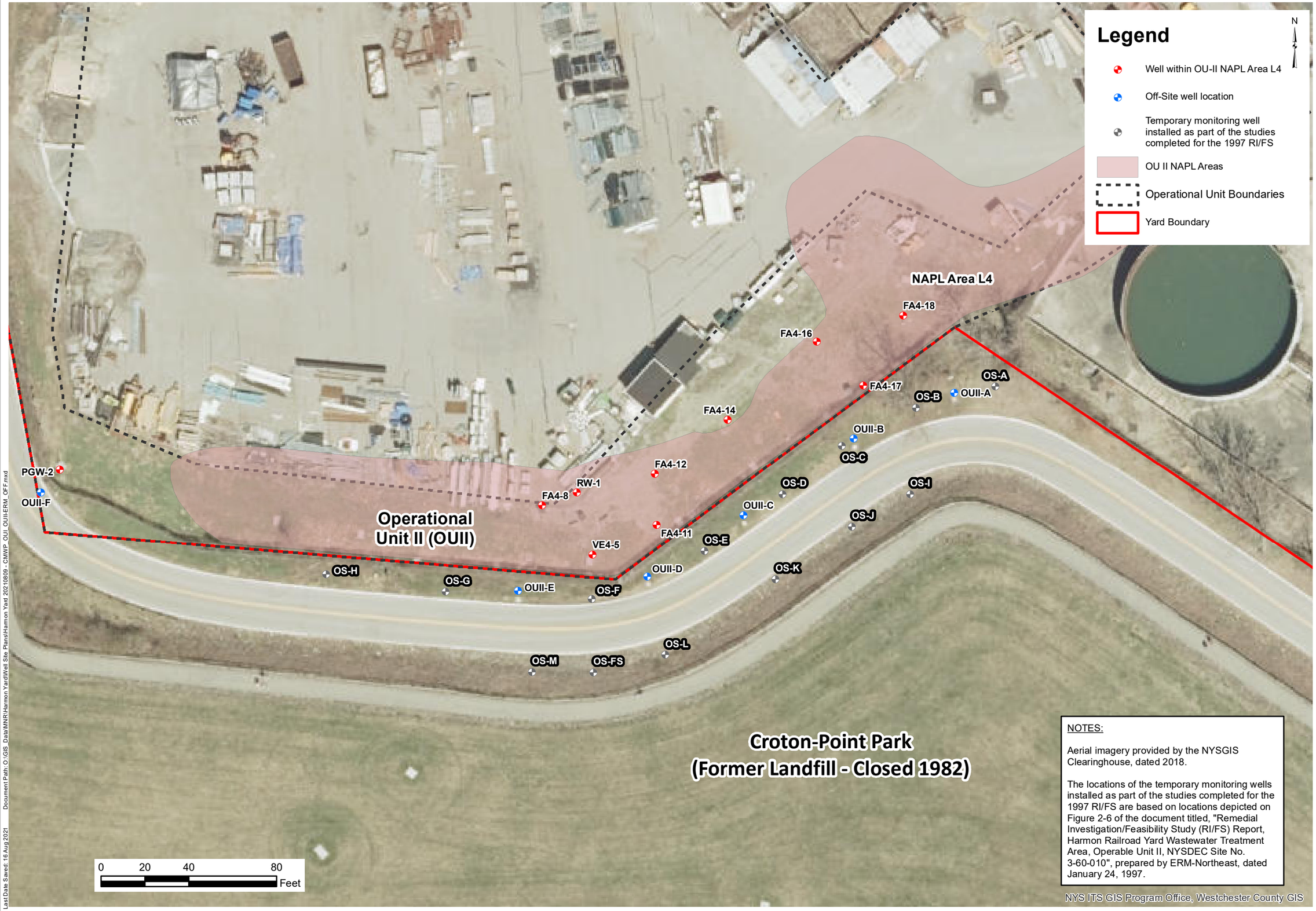


NOTES:

Aerial imagery provided by the NYSGIS Clearinghouse, dated 2018.

The locations of the temporary monitoring wells installed as part of the studies completed for the 1997 RI/FS are based on locations depicted on Figure 2-6 of the document titled, "Remedial Investigation/Feasibility Study (RI/FS) Report, Harmon Railroad Yard Wastewater Treatment Area, Operable Unit II, NYSDEC Site No. 3-60-010", prepared by ERM-Northeast, dated January 24, 1997.

Last Date Saved: 16 Aug 2021 Document Path: O:\GIS_Data\MRR\Harmon Yard\Well Site Plans\Harmon Yard 20210809 - CMMP_OUI_OUII-ERM_OFF.mxd

PROJECT MANAGER	RLK
DATE	08-2021
DRAWN BY	CAH
DATE DRAWN	08-2021
SCALE	As Noted
DATE ISSUED	08-10-2021

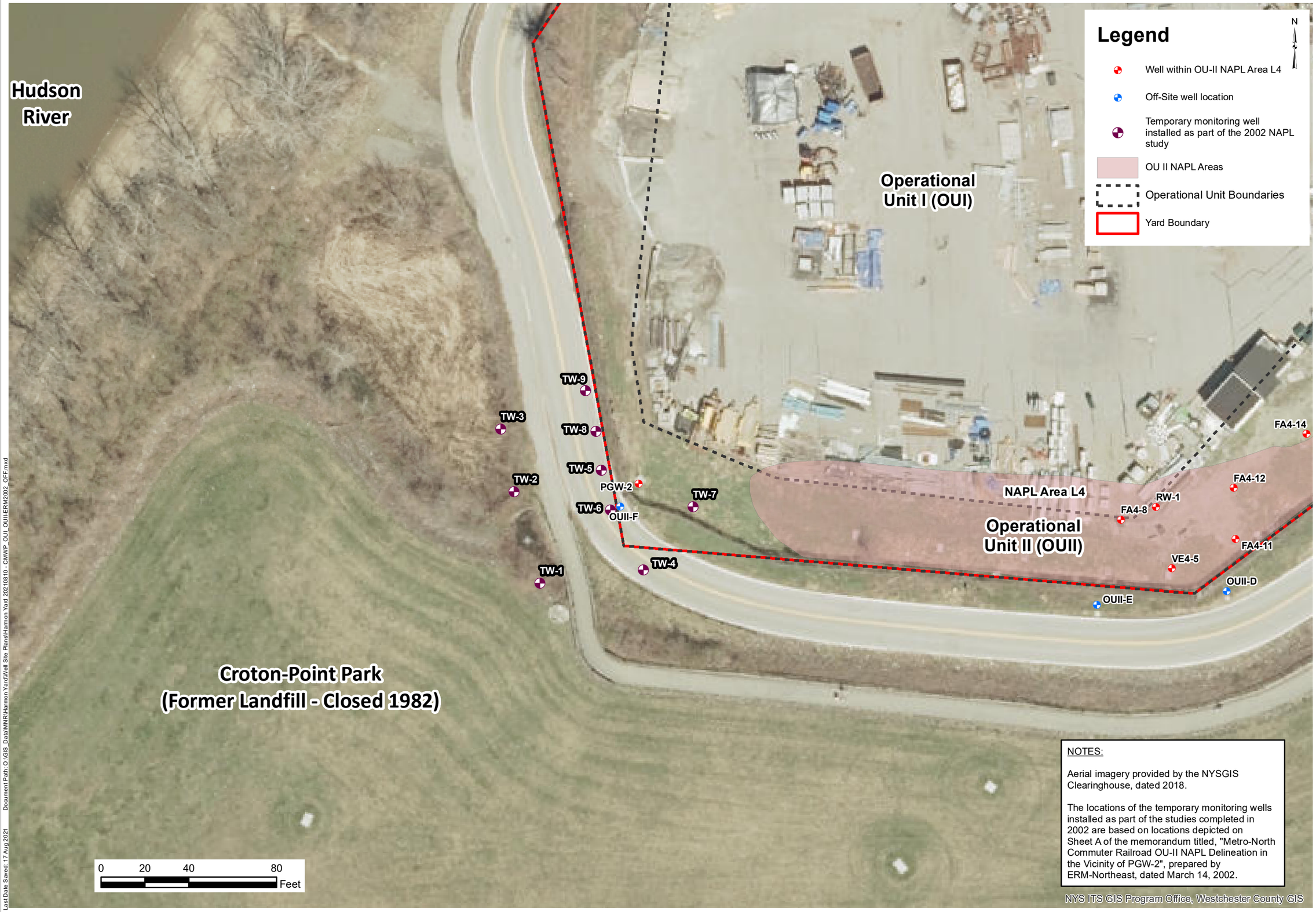
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OUI AND OUII
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO 360010

Drawing Title
Site Plan Depicting Former Locations of Temporary Monitoring Wells, Installed for RI/FS Studies

Project No.
23-3690M

FIGURE 3



Legend

- Well within OU-II NAPL Area L4
- Off-Site well location
- Temporary monitoring well installed as part of the 2002 NAPL study
- OU II NAPL Areas
- Operational Unit Boundaries
- Yard Boundary

NOTES:

Aerial imagery provided by the NYSGIS Clearinghouse, dated 2018.

The locations of the temporary monitoring wells installed as part of the studies completed in 2002 are based on locations depicted on Sheet A of the memorandum titled, "Metro-North Commuter Railroad OU-II NAPL Delineation in the Vicinity of PGW-2", prepared by ERM-Northeast, dated March 14, 2002.

NYS ITS GIS Program Office, Westchester County GIS

PROJECT MANAGER	RLK	DRAWN BY	CAH	SCALE	As Noted
DATE	08-2021	DATE DRAWN	08-2021	DATE ISSUED	08-10-2021

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
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Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OUI AND OUII
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE NO 360010

Drawing Title
Site Plan Depicting Former Locations of Temporary Monitoring Wells, Installed for 2002 NAPL Study

Project No.
23-3690M

FIGURE 4

Last Date Saved: 17 Aug 2021 Document Path: O:\GIS_Data\MNR\Harmon Yard\Well Site Plans\Harmon Yard 20210810 - CMMP_OUI_OUII\ERM2002_QFF.mxd

NOTES:

Aerial Imagery provided by the New York State GIS Clearinghouse, dated 2023. This image may not reflect the most recent site conditions.

CPSL monitoring locations based on the drawing "Environmental Monitoring and Sampling Locations", prepared by Savin Engineers, P.C., and provided by Westchester County Department of Environmental Facilities (Refer to Appendix C)

0 30 60 120
Feet

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Last Date Saved: 5/31/2024 12:10 PM

PROJECT MANAGER	RLK
DATE	08-2021
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DATE DRAWN	08-2021
SCALE	AS NOTED
DATE ISSUED	05-21-2024

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Project Title
NYSDEC SITE NO 360010
METRO-NORTH RAILROAD
HARMON YARD
CROTON-ON-HUDSON, NEW YORK

Drawing Title
Former Croton Point Sanitary Landfill (CPSL) Extent and Monitoring Locations

Project No.
23-3690M

FIGURE 5

Name	Ground Elevation (ft. AMSL)	Area
OB-01	14.4	off-site
OB-02	17.0	off-site
OB-03	17.0	off-site
OB-04	18.0	off-site
OB-05	17.0	off-site
OB-06	17.0	off-site
OB-07	16.0	off-site
OB-08	14.0	off-site
OB-09	10.0	off-site
OB-10	13.4	off-site
OB-11	12.5	off-site
OB-12	12.5	off-site
OB-13	14.2	off-site
OB-14	11.5	off-site
OB-15	11.0	off-site
OB-16	10.5	off-site
OB-17	17.5	NAPL Area L4
OB-18	15.0	NAPL Area L4
OB-19	13.0	NAPL Area L4
OB-20	12.5	NAPL Area L4
OB-21	12.5	NAPL Area L4
OB-22	12.0	NAPL Area L4
OB-23	12.0	NAPL Area L4
OB-24	11.0	NAPL Area L4
OB-25	11.0	Onsite OUII
OB-26	18.1	NAPL Area L4
OB-27	18.5	NAPL Area L4
OB-28	18.6	Onsite OUII
OB-29	18.0	NAPL Area L4
OB-30	19.5	NAPL Area L4
OB-31	19.0	NAPL Area L4
OB-32	18.9	Onsite OUII

NOTES:

Aerial Imagery provided by the New York State GIS Clearinghouse, dated 2023. This image may not reflect the most recent site conditions.

The topographic survey map overlay is sourced from a drawing titled "MNR Survey Plan", prepared by Gannett Fleming of New York, NY, dated April 7, 2011.

Hudson River

Half Moon Bay Townhouses

Operational Unit I (OUI)

Operational Unit II (OUII)

Croton-Point Park
(Railroad I Landfill - Closed 1982)

NYS ITS Geospatial Services, Westchester County GIS

0 30 60 120 Feet

Legend

- Proposed Optical Survey Test Boring
- Operational Unit Boundaries
- Approximate extent of OUI sheeting wall
- OUII NAPL Areas
- Yard Boundary

N

PROJECT MANAGER	RLK
DATE	08-2022
DRAWN BY	CAH
DATE DRAWN	08-2022
SCALE	AS NOTED
DATE ISSUED	05-28-2024

DAY ENGINEERING, P.C.
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Project Title
NYSDEC SITE NO 360010
METRO-NORTH RAILROAD
HARMON YARD
CROTON-ON-HUDSON, NEW YORK

Drawing Title
Site Plan Depicting Proposed Test Boring Locations

Project No.
23-3690M

FIGURE 6

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APPENDIX A-1

HEALTH AND SAFETY PLAN

HEALTH AND SAFETY PLAN

HARMON YARD
OPERABLE UNIT II

METRO-NORTH RAILROAD

Prepared for: Metro-North Railroad
525 North Broadway
White Plains, New York 10603

Prepared by: Day Engineering, P.C.
1563 Lyell Avenue
Rochester, New York 14606

Project No.: 23-3690M

Date: June 2024

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ATTACHMENTS

Attachment 1 Map to Hospital

1.0 INTRODUCTION

This Health and Safety Plan (HASP) outlines the policies and procedures to protect workers and the public from potential environmental hazards posed during an evaluation of conditions at the Metro-North Railroad (MNR) Harmon Yard Operable Unit II (OU-II) remediation area (Site). In addition to the requirements outlined in the HASP, activities shall be conducted in a manner to reduce the probability of injury, accident, or incident occurrence.

1.1 Planned Activities Covered by HASP

This HASP is to be implemented during intrusive work undertaken to evaluate/remediate subsurface conditions at, and adjacent to, the Site. This plan addresses specific health and safety issues related to the potential presence of volatile organic compounds, PCB wastes, petroleum hydrocarbons, semi-volatile organics, various potential physical hazards, and other hazardous constituents, which may be encountered during intrusive activities completed to evaluate subsurface conditions.

Site-specific intrusive activities include: NAPL recovery and transfer to on-site storage, advancement of test borings, and/or installation of monitoring/recovery wells.

1.2 Site Background

Harmon Yard, the largest facility operated by MNR, has functioned as a primary diesel and electrical maintenance and marshaling yard for over 100 years and previously included a coal burning power plant and steam generation facility. The present maintenance shop, initially constructed at the turn of the century, replaced several round houses and service facilities. Harmon Yard also includes fuel storage tanks, locomotive fuel pads, car wash tracks (no longer in use), storage yards for equipment, wastewater treatment facilities, and material distribution facilities.

The Site, as defined in this HASP, refers to the area surrounding the former wastewater treatment plant lagoon. This area of Harmon Yard, which has been designated as Operable Unit II (OU-II), is a New York State Inactive Hazardous Waste Disposal Site.

2.0 HEALTH AND SAFETY RESPONSIBITIES

MNR, contractor, and subcontractor employees involved with subsurface evaluation will be responsible for their own safety. Site personnel will be required to understand the information contained in this HASP, and must follow the recommendations that are made in this document.

2.1 Project Manager

The project manager (PM) is responsible for coordinating with the site safety officer (SO) and ensuring the work associated with the subsurface evaluation is conducted in a manner consistent with the HASP requirements outlined herein. The PM shall be responsible for maintenance of this HASP.

2.2 Safety Officer

The safety officer (SO) or designated representative will supervise emergency response activities, implement safety procedures and document field briefings. The SO will provide HASP addenda information to the PM if safety issues arise during the subsurface evaluation work activities that are not discussed in this HASP.

2.3 Personnel Responsibilities

All personnel performing subsurface evaluation will be directed to read and follow this HASP and be responsible for informing the SO of any changes in conditions and/or levels of protection required in the work areas. All project personnel are responsible for the following:

- Taking all reasonable precautions to prevent injury to themselves and others.
- Implementing the requirements of this HASP and reporting any deviations from the anticipated conditions described herein to the SO.
- Performing only those tasks that they believe they can do safely, and immediately report any accidents and/or unsafe conditions to the SO.
- Filling out a MNR accident report form for all injuries, regardless of severity. The injured worker should complete the form and review it with the SO. A copy of the form shall be provided to the worker, the SO, and the worker's foreman.

3.0 SITE ACTIVITIES HAZARD ANALYSIS

Site activities during subsurface evaluation may include: well gauging and sampling, excavation and management of surface-near surface soil/fill material, advancement of test borings and/or installation of groundwater monitoring/NAPL recovery wells, and transfer of recovered LNAPL to storage containers. The following sections identify the sequence of steps, potential hazards and recommended actions or procedures to prevent hazards.

3.1 Well Gauging and Sampling

Sequence of Basic Steps	Potential Hazards	Recommended Action or Procedure
1. Site Setup	• Slips, trips, and falls • Back strain • Traffic	• Watch footing and surroundings • Utilize proper lifting techniques • Wear reflective vest when conducting work
2. Open Well Vaults and Entering	• Back strain • Hazardous environments • Slips, trips, and falls	• Utilize proper lifting techniques • Know site conditions by having data on vault % oxygen, % LEL and VOCs. • Watch footing and surroundings
3. Well Monitoring	• Contact with contaminants • Slips, trips, and falls	• Wear proper PPE • Watch footing and surroundings
4. Sample collection	• Contact with contaminants	• Wear proper PPE
5. Demobilization	• Slips, trips, and falls • Back strain	• Watch footing and surroundings • Utilize proper lifting techniques

3.2 Test Boring/Well Advancement/Installation

Sequence of Basic Steps	Potential Hazards	Recommended Action or Procedure
1. Site Setup	• Slips, trips, and falls • Back strain • Traffic	• Watch footing and surroundings • Utilize proper lifting techniques • Wear reflective vest when conducting work
2. "Hand Clearance" of near surface zone	• Back strain • Slips, trips, and falls • Contact with contaminants	• Utilize proper lifting techniques • Watch footing and surroundings • Wear proper PPE
3. Working Around Drilling Equipment	• Slips, trips, and falls • Contact with drilling equipment • Traffic	• Watch footing and surroundings • Maintain communication with equipment operator • Wear reflective vest when conducting work
4. Demobilization	• Slips, trips, and falls • Back strain	• Watch footing and surroundings • Utilize proper lifting techniques

3.3 NAPL Management and Recovery

Sequence of Basic Steps	Potential Hazards	Recommended Action or Procedure
1. Site Setup	• Slips, trips, and falls • Back strain • Traffic	• Watch footing and surroundings • Utilize proper lifting techniques • Wear reflective vest when conducting work
2. Open Well Vaults and Entering	• Back strain • Hazardous environments • Slips, trips, and falls	• Utilize proper lifting techniques • Know site conditions by having data on VOCs. • Watch footing and surroundings
3. Well Monitoring	• Contact with contaminants • Slips, trips, and falls	• Wear proper PPE • Watch footing and surroundings
4. NAPL Recovery	• Contact with contaminants • Electric shock • Hazardous environments • Flammable environments	• Wear proper PPE • Check electrical cords and equipment for damage • Know site conditions by having data on VOCs • Ventilate work area and utilize non-sparking tools
5. NAPL Transfer into Container at Site	• Contact with contaminants • Splash hazards • Flammable environments	• Wear proper PPE • Use proper equipment for liquid transfer • Ventilate work area utilize non-sparking tools
6. Entering Bldg L1/L2 and L4	• Hazardous environments	• Know site conditions by having data on VOCs
7. NAPL Transfer into Primary Container	• Contact with contaminants • Splash hazards • Flammable environments	• Wear proper PPE • Use proper equipment for liquid transfer • Ventilate work area and utilize non-sparking tools
8. Demobilization	• Slips, trips, and falls • Back strain	• Watch footing and surroundings • Utilize proper lifting techniques

3.4 General Work Rules

To protect against the occurrence of accidents and dangerous situations, as well as to reduce the potential for emergency events, all on-site personnel shall follow these general rules:

1. Obtain annual safety training required by MNR and read this HASP. The HASP is to be reviewed periodically by all on-site personnel conducting O & M field operations.
2. As required by MNR policy, attend daily job safety briefings, and discuss job-specific hazards that may be encountered during planned work activities.
3. Fieldwork must only be conducted during daylight hours unless adequate artificial light is provided.
4. Wear a hardhat, gloves, appropriate eye/face protection, hearing protection and durable work boots when working around heavy equipment.
5. No eating, drinking or smoking will be permitted within the buildings, near product storage areas or during any O & M operations.

6. All personnel shall be knowledgeable in the use of the first-aid equipment available onsite.
7. Personnel will be advised of the precautions to be taken against sunburn, heat stroke, frostbite, and hypothermia.
8. Only authorized personnel will be allowed on site.
9. Fire extinguishers shall be available at the work site for immediate use in the event of an emergency.

To minimize the possibility of injuries, the following general precautions will be taken:

1. All hand and power tools must be maintained in safe operating condition.
2. Safety guards will be kept in place during equipment operation.
3. Power tools will be double insulated and/or properly grounded.
4. Walkways must be kept clear of equipment, vegetation, excavated material, or other obstructions.
5. Employees exposed to vehicular traffic must wear reflective warning vests.
6. Employees will observe proper lifting techniques and obey sensible lifting limits.
7. Heavy equipment will be used in accordance with the manufacturer's specifications and guidelines.

To guard against injury caused by exposure to cold temperatures, the following measures should be taken in cold weather:

1. Workers should wear adequate winter clothing.
2. Clothing should be changed if they become wet.
3. Warm shelter and regular rest periods will be available for workers.
4. Training sessions should be held as appropriate to emphasize warning symptoms of hypothermia or frostbite such as reducing coordination, drowsiness, impaired judgment, fatigue, and numbing of toes and fingers.

To guard against injury caused by heat stress, the following control measures should be employed in hot weather:

1. Provision for adequate liquids to replace lost body fluids. Employees must replace water and salt lost through perspiration.
2. Employees will be encouraged to drink more than the amount required to satisfy thirst, since thirst satisfaction is not an accurate indicator of adequate salt and fluid replacement. Replacement fluids can be a 0.1 percent salt solution; commercial mixes such as Gatorade or Quick Kick, or a combination of these with fresh water.
3. Establishment of a work schedule that will provide adequate rest periods for cooling down. Rest breaks are to be taken in a cool, shaded area during hot weather.
4. Employees shall not be assigned other tasks during rest periods.
5. All employees shall be informed of the importance of adequate rest, acclimation, and proper diet in the prevention of heat stress.

4.0 GENERAL JOB HAZARDS

The general job hazard characteristics associated with work activities associated with the subsurface evaluation are identified in greater detail in the following sections.

4.1 Chemical Hazards

Chemical substances can enter the unprotected body by inhalation, skin absorption, ingestion, or through a puncture wound (injection). A contaminant can cause damage to the point of contact or can act systemically, causing a toxic effect at a part of the body distant from the point of initial contact.

The potential routes of exposure for these contaminants include inhalation, ingestion, and absorption through skin/eye contact. The potential for exposure through any one of these routes will depend on the activity conducted. The most likely routes of exposure for the activities that are performed during subsurface evaluation include inhalation and absorption through skin contact.

During subsurface evaluation work activities in which inhalation of vapors and absorption are potential routes of entry, the worker's breathing zone shall be monitored for volatile organic compounds (VOCs) using a photoionization detector (PID). This real-time field instrument reading can be used to determine the level of personal protective equipment (PPE) required (see Section 6.0).

The primary constituent of concern at the Site is polychlorinated biphenyl (PCBs) present in the NAPL. The OSHA permissible exposure limit (PEL) for PCBs is 1 mg/m^3 and the level that is considered immediately dangerous to life and health (IDLH) is 5 mg/m^3. Primary routes of entry are absorption through skin and eye contact; however, if PCBs are burned the respirable soot contains PCBs, polychlorinated dibenzofurans and chlorinated dibenzo-p-dioxins. PCB mists may occur from leaks or fugitive emissions from equipment carrying PCB contaminated fluids. Although PCBs evaporate slowly at room temperature, small increases in temperature can increase the volatility of PCBs significantly. Overheated PCB equipment can vaporize PCB compounds and create an inhalation hazard. Proper ventilation is needed in PCB system/transformer servicing and maintenance operations.

During other subsurface evaluation work activities in which inhalation of particulates is a potential route of entry; the worker's breathing zone shall be monitored for total particulate concentrations using a particulate monitor. If total particulate concentrations equal or exceed 5 mg/m^3 time weighted average (TWA), then respirable particulate concentrations using analytical air sampling will be required.

4.2 Physical Hazards

There are physical hazards associated with the O & M operations, which might compound the chemical hazards. Hazard identification, training, adherence to the O & M plans and careful housekeeping can prevent many problems or accidents arising from physical hazards. Potential physical hazards associated with O & M operations and suggested preventative measures include:

- Slip/Trip/Fall Hazards - Some areas may have wet surfaces that will greatly increase the possibility of inadvertent slips. Caution must be exercised when walking in grassed areas out to the well sites due to slippery surfaces in conjunction with the hazard. Also, good housekeeping practices are essential to reduce the trip hazards at the work sites.
- Oxygen Deficient and Explosive Atmosphere Hazards – Some areas may have the potential for oxygen deficient and/or explosive atmosphere conditions. Monitoring of the atmosphere prior to entry and as conditions change shall be conducted, as necessary, using an oxygen and combustible gas monitor.
- Small Quantity Flammable Liquids - If small quantities of flammable liquids are brought on-site, they must be stored in "safety" cans and labeled according to contents.
- Electrical Hazards - Electrical devices and equipment shall be de-energized prior to working near them. All extension cords will be kept out of water, protected from crushing, and inspected regularly to ensure structural integrity. Temporary electrical circuits will be protected with ground fault circuit interrupters. Only qualified electricians are authorized to work on electrical circuits.
- Noise - Work around large equipment often creates excessive noise. The effects of noise can include:
    - Workers being startled, annoyed, or distracted.
    - Physical damage to the ear resulting in pain, or temporary and/or permanent hearing loss.
    - Communication interference that may increase potential hazards due to the inability to warn of danger and proper safety precautions to be taken.

  If employees are subjected to noise exceeding an 8-hour time weighted average (TWA) sound level of 90 dBA (decibels on the A-weighted scale), feasible administrative or engineering controls shall be utilized to reduce average sound levels below 90 dBA. In addition, whenever employee noise exposures equal or exceed an 8-hour, time weighted average sound level of 85 dBA, employers shall administer a continuing, effective hearing conservation program as described in OSHA Regulation 29 CFR Part 1910.95.
- Heavy Equipment - Each morning before start-up, heavy equipment will be inspected to ensure safety equipment and devices are operational and ready for immediate use.

- Subsurface and Overhead Hazards - Before any excavation activity, efforts must be made to determine whether underground utilities and potential overhead hazards will be encountered. Underground utility clearance must be obtained prior to subsurface work.

4.3 Environmental Hazards

Environmental factors such as weather, wild animals, insects, and irritant plants always pose a hazard when performing outdoor tasks. Every reasonable effort should be made to alleviate these hazards should they arise.

4.3.1 Heat Stress

The combination of warm ambient temperature and protective clothing increases the potential for heat stress. In particular:

- Heat rash is an itchy rash caused by sweating and inadequate hygiene practices.
- Heat cramps are painful muscle spasms as a result of exposure to excess heat.
- Heat exhaustion is a condition usually caused by loss of body water because of exposure to excess heat. Symptoms include headache, tiredness, nausea, and sometimes fainting.
- Heatstroke is a serious disorder resulting from exposure to excess heat. It results from sweat suppression and increased storage of body heat. Symptoms include hot dry skin, high temperature, mental confusion, convulsions, and coma. Heatstroke is fatal if not treated promptly.

Site workers will be encouraged to increase consumption of water and electrolyte-containing beverages such as Gatorade when the potential for heat stress exists. In addition, workers are encouraged to take rests whenever they feel any adverse effects that may be heat-related. The frequency of breaks may need to be increased upon worker recommendations.

4.3.2 Exposure to Cold

With outdoor work in winter months, the potential for hypothermia and/or frostbite exists.

Proper protective clothing greatly reduces the possibility of hypothermia and/or to workers. However, personnel will be instructed to wear warm clothing in layers. Employees will also be advised to change into dry clothes if their clothing becomes wet from perspiration or from exposure to precipitation.

5.0 SITE CONTROLS

Appropriate site control procedures, listed below, shall be implemented to control employee exposure to hazardous substances during the subsurface evaluation. In addition, site control procedures are also used to prevent migration of potential contamination caused through tracking by personnel or equipment outside of the designated work area. The Site is an inactive hazardous waste site and site controls must be conducted in accordance with 29 CFR 1910.120.

5.1 Site Zones

In areas where NAPL presents a potential for worker exposure, an "exclusion zone" shall be established when subsurface evaluation work activities are underway. Personnel entering the "exclusion zone" must have received appropriate HAZWOPER training in accordance with 29 CFR 1910.120 and must wear the mandated level of protection for the area. The LNAPL recovery well locations present the greatest potential for exposure to other workers in the area. NAPL Areas L1, L2, and L4 have the potential for lawn maintenance crews to be in the vicinity. NAPL Area L3 and off-site areas (i.e., in the vicinity of the access road to the Half Moon Bay townhouses and within Croton Point Park) has the potential for pedestrian and vehicular traffic in the area. To prevent exposure to other workers or pedestrians, traffic cones and barrier tape should be used to delineate the work area at a minimum 5-foot "exclusion zone" radius during the subsurface evaluation. This "exclusion zone" is temporary and can be removed once subsurface evaluation work activities are completed.

A "transition zone", designated as a line identified by the perimeter of the "exclusion zone", shall be established where personnel can begin personal and equipment decontamination procedures when the subsurface evaluation is underway. If NAPL is encountered and equipment or clothing becomes contaminated, they will not be allowed on clean portions of the Site to preclude the spread of contamination. If contaminated equipment is to be transferred to another area, then equipment may be wrapped in polyethylene or other suitable materials to prevent the release of contaminants outside of the work areas. Operational support facilities, if needed, will be located outside the transition zone (i.e., in a "support zone"), and normal work clothing and support equipment are appropriate in this area. Personnel assisting subsurface evaluation work from the support zone should be located upwind of project activities, whenever possible.

5.2 General

The following items will be implemented to protect the health and safety of workers during the subsurface evaluation.

- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand to mouth transfer and ingestion of contamination shall not occur in the work zone and/or transition zone during .
- Personnel admitted in the work zone shall be properly trained in health and safety techniques and equipment usage.

- No personnel shall be admitted in the work zone without the proper safety equipment.
- Proper decontamination procedures (See Section 7.0) shall be followed before leaving the Site.

6.0 PROTECTIVE EQUIPMENT

This section addresses the various levels of personal protective equipment (PPE) that are or may be required during the subsurface evaluation. Personnel entering the work zone and transition zone shall be trained in the use of the anticipated PPE to be utilized.

6.1 Anticipated Protection Levels

The following table summarizes the protection levels (refer to Section 6.2) anticipated for various tasks to be implemented during the subsurface evaluation.

TASK	PROTECTION LEVEL	COMMENTS/MODIFICATIONS
Site mobilization	Level D	
Task preparation	Level D	
Well gauging	Modified Level D	Based on air monitoring and safety officer or designated representative discretion
Well sampling	Modified Level D	Based on air monitoring and safety officer or designated representative discretion
NAPL recovery	Modified Level D	Based on air monitoring and safety officer or designated representative discretion
Advancement of drilling equipment or installation of monitoring/recovery wells	Modified Level D	Based on air monitoring and safety officer or designated representative discretion
Support zone	Level D	
Site demobilization	Level D	

It is anticipated that work conducted as part of the subsurface evaluation will be performed in Level D or modified Level D PPE. The PPE level being worn should be evaluated and modified as site conditions warrant. The proper health and safety measures will be implemented (e.g., develop and implement engineering controls, upgrade in PPE, etc.).

6.2 Protection Level Descriptions

This section lists the minimum requirements for each protection level anticipated for the subsurface evaluation. Modifications to these requirements can be made upon approval of the safety officer.

6.2.1 Level D

Level D consists of the following:

- Safety glasses with side shields
- Hard hat
- Hard-toed work boots
- Work gloves*
- Hearing protection, if needed
- Work clothing as prescribed by weather conditions

6.2.2 Modified Level D

Modified Level D consists of the following:

- Safety glasses with side shields
- Hard hat
- Steel-toed work boots
- Work gloves*
- Hearing protection, if needed
- Outer protective wear, such as Tyvek coverall [Tyveks (Sarans) and polyvinyl chloride (PVC) will be required when workers have a potential to be exposed to NAPL or activated carbon particulates].

* Nitrile gloves are often appropriate when handing oil potentially containing elevated concentrations of PCBs. However, depending on the material encountered, another glove type may be more appropriate. Based upon the work activities and the anticipated materials that will be encountered, site workers should check with the MNR Safety Department to determine the most-appropriate protective work glove for the task to be completed.

6.3 Hearing Protection

Hearing protectors (ear plugs and/or ear muffs) shall be worn in locations where powered or motorized equipment or any other noise source could reasonably be expected to exceed 85 dBA. A hearing conservation program shall be implemented in accordance with OSHA 29 CFR 1910.95 when 8-hour time-weighted average exposure levels exceed 85 dBA.

Noise monitoring was conducted within the OU-II maintenance buildings. Noise levels of $\geq$ 85 dBA were observed in the L1/L2 building and in the L4 building. Employee exposures are expected to be less than 1 hour of an 8-hour workday. Hearing protectors (ear plugs and/or ear muffs) shall be worn in these identified locations and any other locations where powered or motorized equipment or any other noise source could reasonably be expected to exceed 85 dBA.

7.0 DECONTAMINATION PROCEDURES

This section describes the procedures necessary to ensure that both personnel and equipment are free from potential contamination when they leave the work Site.

7.1 Personnel Decontamination

Personnel involved with the subsurface evaluation in which PPE becomes contaminated will follow the decontamination procedures described herein to ensure that material which workers may have contacted in the work zone and/or transition zone does not result in personal exposure and is not spread to clean areas of the Site. This sequence describes the general decontamination procedure. The specific stages can vary depending on the task, protection level, etc.

1. Leave work zone and go to transition zone
2. Remove soil/debris from boots and gloves, if applicable
3. Remove and discard disposable boot covers, if worn (remove boots and decontaminate otherwise)
4. Remove and discard Tyvek suit, if applicable
5. Remove and discard gloves
6. Wash hands and/or other areas of exposed skin that may have come in contact with petroleum using a waterless soap (e.g., GoJo Heavy Duty Hand Cleaner or similar)
7. Go to support zone

7.2 Equipment Decontamination

If equipment becomes contaminated, it shall be decontaminated before leaving the Site. Decontamination procedures can vary depending upon the contaminant involved, but may include sweeping, wiping, scraping, hosing, or steam cleaning the exterior of the equipment. Personnel performing this task will wear the proper PPE.

7.3 Disposal

Disposable clothing will be placed into appropriately labeled containers for future disposal in accordance with applicable regulations. Current sampling and analysis information obtained on PCB levels indicate that PCBs are less than 50 ppm in the oil on site. Therefore, disposable clothing may be collected in trash containers in each area, bagged, and disposed of as industrial waste (i.e., not managed as hazardous waste or PCB waste). If regularly conducted analysis of the oil identifies PCB levels of greater than 50 ppm, all debris/material in contact with the oils must be managed as hazardous and PCB waste in accordance with applicable regulations.

8.0 AIR MONITORING

During activities that have the potential to disturb contaminated soil, fill material, or groundwater, a Community Air Monitoring Plan (CAMP) will be implemented. The CAMP includes real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when activities with the potential to release VOCs or dust are in progress at the Site. Details regarding monitoring, response thresholds, corrective actions, and reporting requirements are presented in Appendix A-2 (Community Air Monitoring Plan). The equipment required to implement the CAMP is described below.

8.1 Volatile Organic Compound Monitoring

A MiniRae 3000 PID equipped with a minimum 10.6 eV lamp (or equivalent) will be used to monitor total volatile organic content of the ambient air. The PID will prove useful as a direct reading instrument to aid in determining if current respiratory protection is adequate or needs to be upgraded. The safety officer or designated representative will take measurements before operations begin in an area to determine the amount of VOCs naturally occurring in the air. This is referred to as a background level. Levels of VOCs will periodically be measured in the air at active work sites, and at the transition zone when levels are detected above background in the work zone.

8.2 Particulate Monitoring

A MIE personal data ram Model 1000 particulate monitor (or equivalent) will be used to measure total airborne particulate concentrations. These devices are generally aerosol monitors in which the aerosol is a solid (dust), liquid (mist), or condensed vapor form a high-temperature process such as combustion or welding (fume).

9.0 EMERGENCY RESPONSE

To provide first-line assistance to field personnel in case of illness or injury, the following items must be made available on the Site. These items will be immediately accessible if placed in the equipment buildings on the OU-II site.

- First-Aid Kit
- Portable emergency eyewash

Specific, emergency response items required are to be implemented as further discussed in this section.

9.1 First Aid

The following 'First Aid' is to occur after contact with free product that has the potential to contain PCBs or airborne mists containing PCBs.

- Skin Contact: Wash with warm water and soap; apply cold cream to reduce irritation
- Eye Contact: Flush with lukewarm water for at least 15 minutes; seek medical attention
- Ingestion: Do not induce vomiting; consult a physician
- Inhalation: Get victim to fresh air; take victim to physician

9.2 Emergency Telephone Numbers

The following telephone numbers are listed in case there is an emergency at the Site:

Fire/Police Department	911
Poison Control Center	(800) 336-6997
MNR DECS	(914) 686-8681 or (212) 340-3322
MNR Safety Department	(212) 340-2358
Assistant Chief Rail Traffic Controller	(212) 340-2050
Nearest Hospital to Harmon Yard	Phelps Memorial Hospital
Hospital Phone Number:	(914) 336-3000
Directions to Hospital:	See Hospital Map in Attachment 1

9.3 Evacuation

Although unlikely, it is possible that a site emergency could require evacuating all personnel from the Site. The following actions should take place during site evacuation:

- Immediately notify all on-site personnel of the emergency requiring evacuation.
- Leave the dangerous area and report to designate rally point.
- Notify emergency services, as appropriate.
- Account for all personnel
- Contact the SO and MNR Safety Department (see contact list in Section 9.2).
- Maintain site security and control measures for worker and community safety until emergency services take over.

9.4 Medical Emergency

In the event of a medical emergency involving illness or injury to one of the on-site personnel, the Site should be shutdown and immediately secured. The SO should notify the appropriate regulatory authorities immediately. The area in which the injury or illness occurred should not be entered until the cause of the illness or injury is known and a determination is made that re-entry is safe. The nature of injury or illness should be assessed. If the victim appears to be critically injured, administer first aid and/or CPR as needed.

9.5 Contamination Emergency

It is unlikely that a contamination emergency will occur; however, if such an emergency does occur, the Site should be shutdown and immediately secured. Real-time air monitoring should be implemented. If the material is unknown, samples of the material should be acquired to facilitate identification of the material. The area in which the spill or release occurred should not be entered until the cause can be determined and Site safety can be evaluated. All non-essential on-site personnel should be evacuated from the Site to a safe, secure area. If an emergency rescue is needed, notify, Police, Fire Department and EMS Units immediately. Advise them of the situation and request an immediate response. The MNR DECS should notify the appropriate regulatory authorities as soon as possible. The area in which the contamination occurred should not be entered until the arrival of trained personnel who are properly equipped with the appropriate PPE and monitoring instrumentation.

9.6 Fire Emergency

In the event of a fire on-site, the Site should be shutdown and immediately secured. The area in which the fire occurred should not be entered until the cause is known and a determination is made that re-entry is safe. All non-essential site personnel should be evacuated from the Site to a safe, secure area. The SO should immediately advise the Fire Department of the situation and identify any hazardous material involved. The appropriate regulatory authorities should be notified as soon as possible.

The four classes of fire along with their constituents are as follows:

Class A: Wood, cloth, paper, rubber, many plastics and ordinary combustible materials.
Class B: Flammable liquids, gases and greases.
Class C: Energized electrical equipment.
Class D: Combustible metals such as magnesium, titanium, sodium and potassium.

Small fires may be actively extinguished; however, extreme care should be taken while in this operation. All approaches to the fire should be done from the upwind side if possible. Distance from on-site personnel to the fire should be close enough to ensure proper application of the extinguishing material, but far enough away to ensure that the personnel are safe. The proper extinguisher should be utilized for the Class(s) of fire present on the site. If possible, the fuel source should be cut off or separated from the fire. Care must be taken when performing operations involving the shut-off values and manifolds, if present.

Examples of proper extinguishing agent as follows:

Class A: Water
Water with 1% AFFF Foam (Wet Water)
Water with 6% AFFF or Fluorprotein Foam
ABC Dry Chemical

Class B: ABC Dry Chemical
Purple K
Carbon Dioxide
Water with 6% AFFF Foam

Class C: ABC Dry Chemical
Carbon Dioxide

Class D: Metal-X Dry Powder

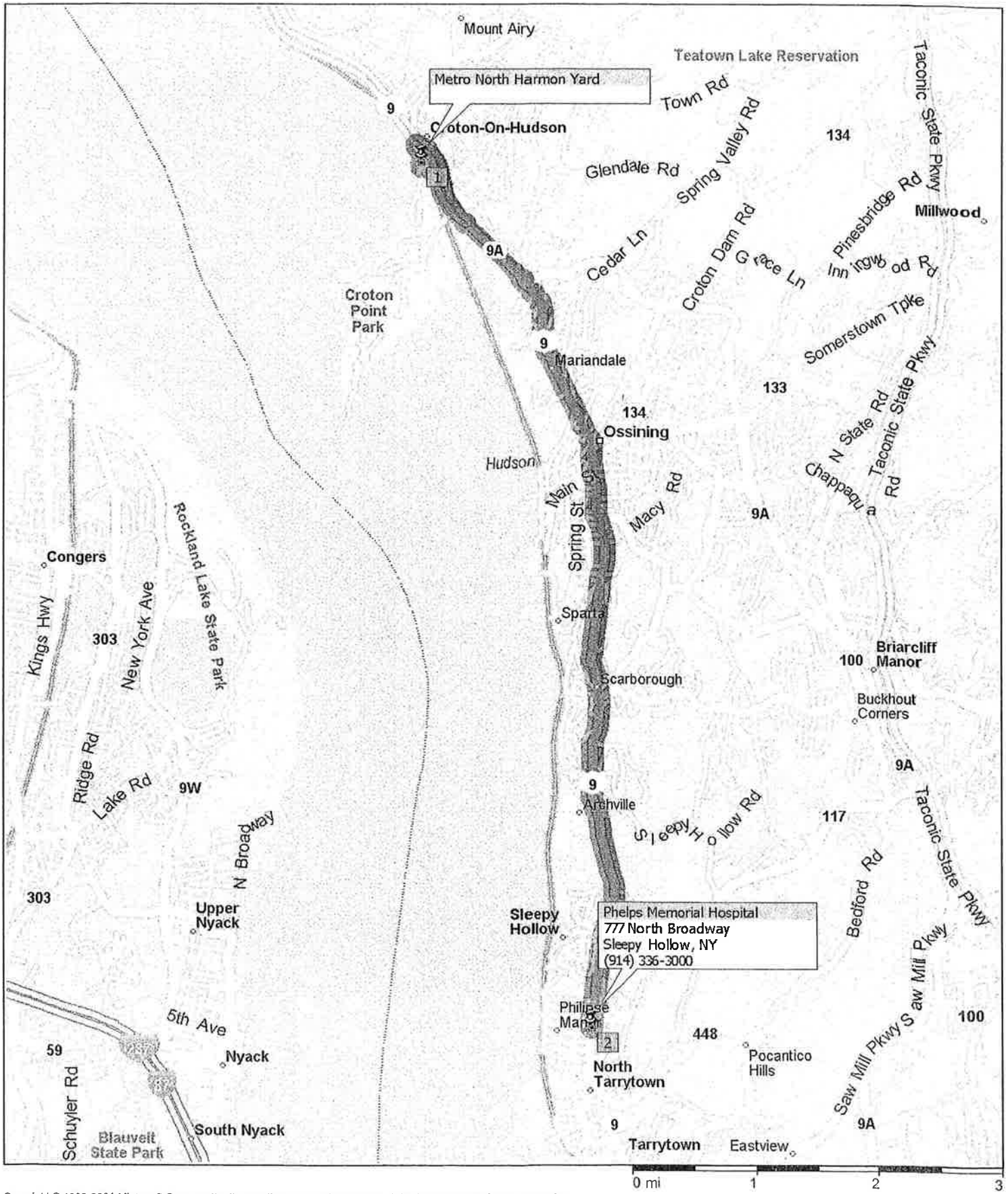
No attempt should be made against large fires. These should be handled by the Fire Department.

ATTACHMENT 1

Map to Hospital

Metro North Harmon Yard Hospital Route

8.3 miles; 13 minutes



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APPENDIX A-2

COMMUNITY AIR MONITORING PLAN

Appendix A-2
Community Air Monitoring Plan

During activities that have the potential to disturb contaminated soil, fill material, or groundwater, this Community Air Monitoring Plan (CAMP) will be implemented. The CAMP includes real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when activities with the potential to release VOCs or dust are in progress at the Site. This CAMP is based on the NYSDOH Generic CAMP included as Appendix 1A DER-10. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, the intent of this CAMP is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences/businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of project activities.

Continuous monitoring will be conducted during ground intrusive activities involving potentially contaminated soil, fill material or groundwater. Ground intrusive activities include, but are not limited to advancement/installation of test borings or monitoring wells.

Periodic monitoring for VOCs will be conducted during non-intrusive activities involving potentially contaminated soil, fill material or groundwater where deemed appropriate (e.g., during NAPL recovery or monitoring, etc.).

VOC Monitoring, Response Levels, and Actions

VOCs must be monitored at the downwind perimeter of the immediate work area (i.e., the work zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 ppm above background for the 15-minute average, work activities must be temporarily halted and monitoring must be continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source or vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less (but in no case less than 20 feet), is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

The 15-minute readings must be recorded and made available for NYSDEC and NYSDOH personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind perimeter of the work zone at temporary particulate monitoring stations. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 $\mu g/m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

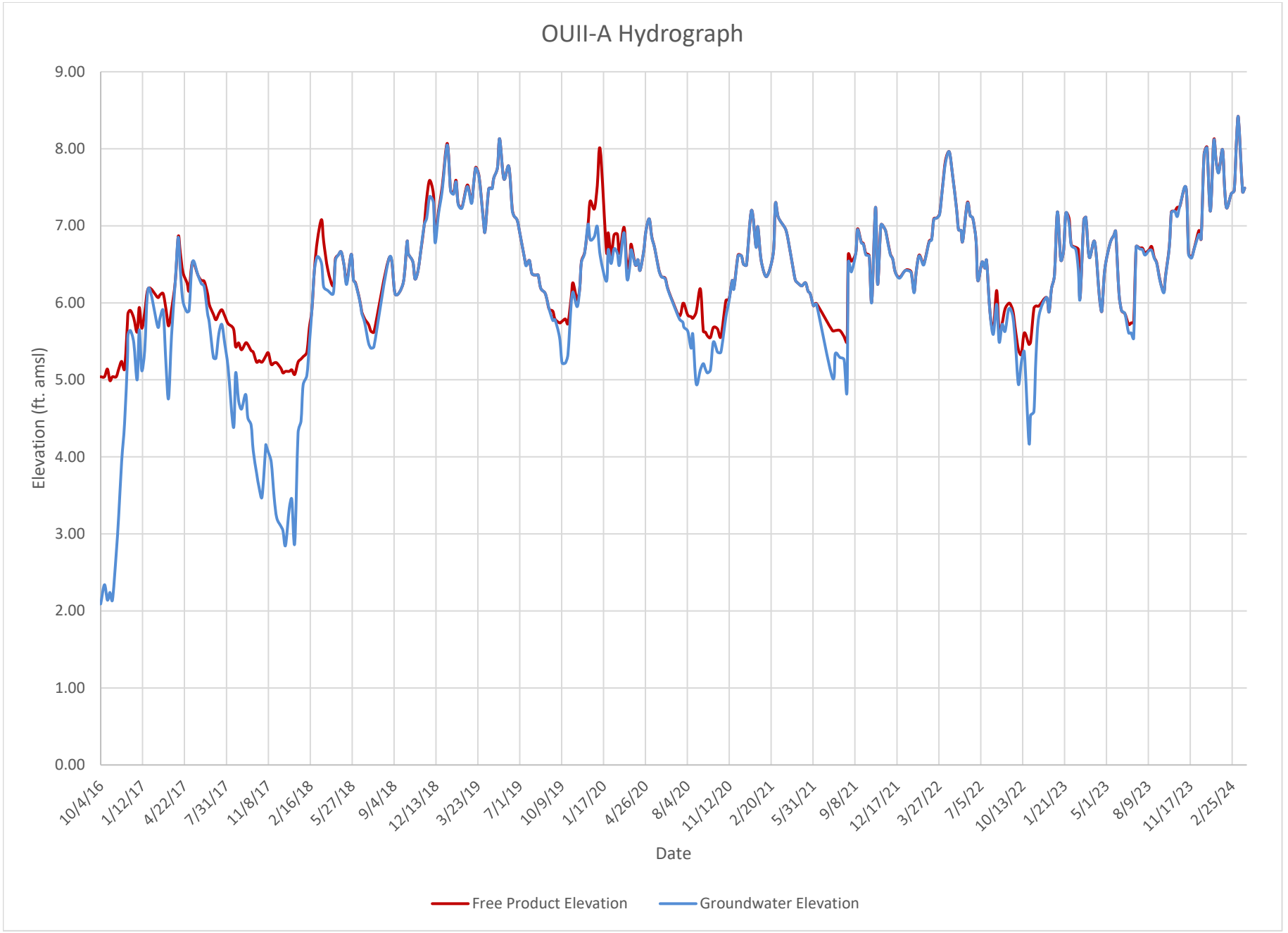
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 $\mu g/m^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 $\mu g/m^3$ of the upwind level and in preventing visible dust migration.

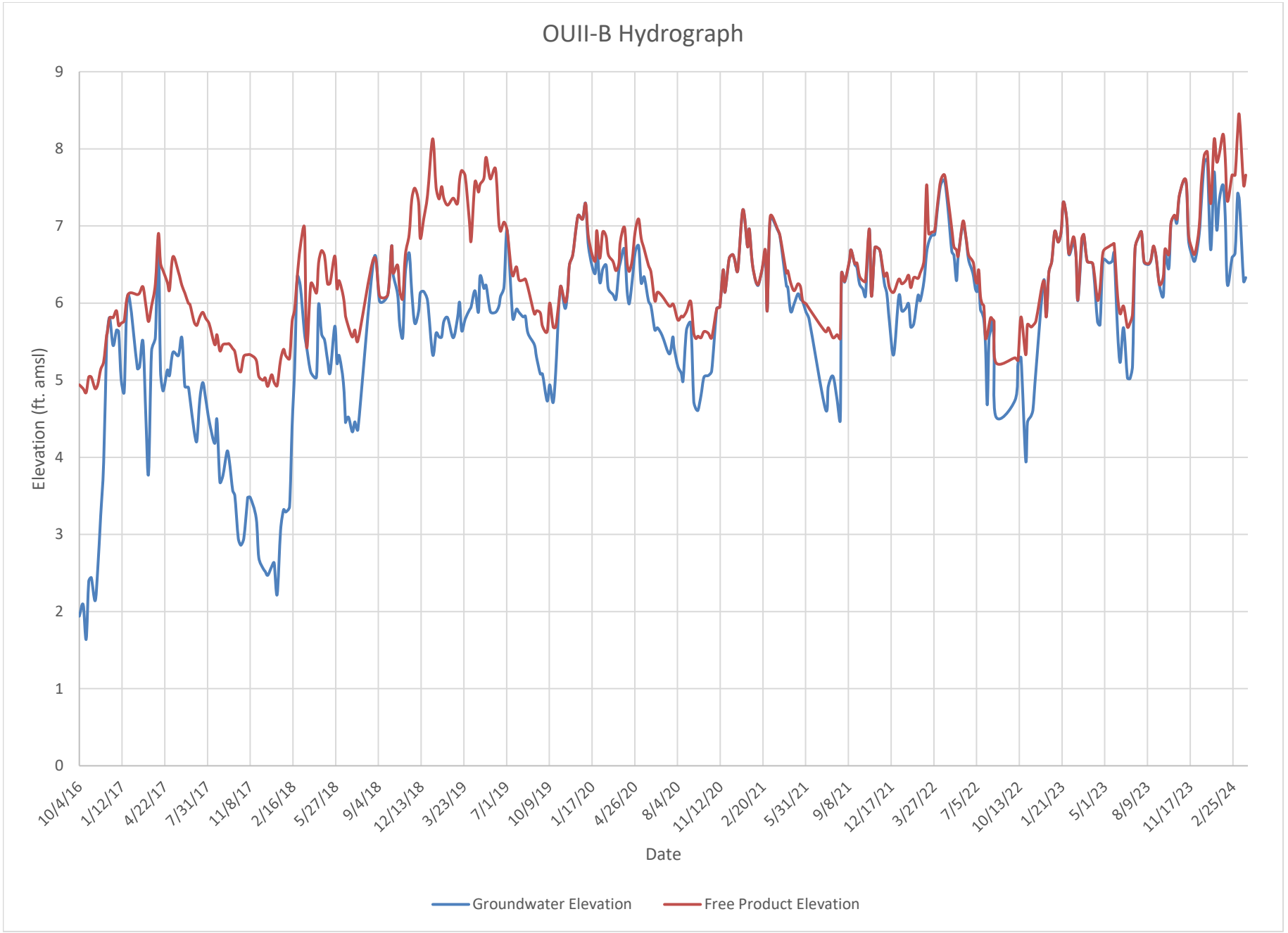
Reporting Requirements

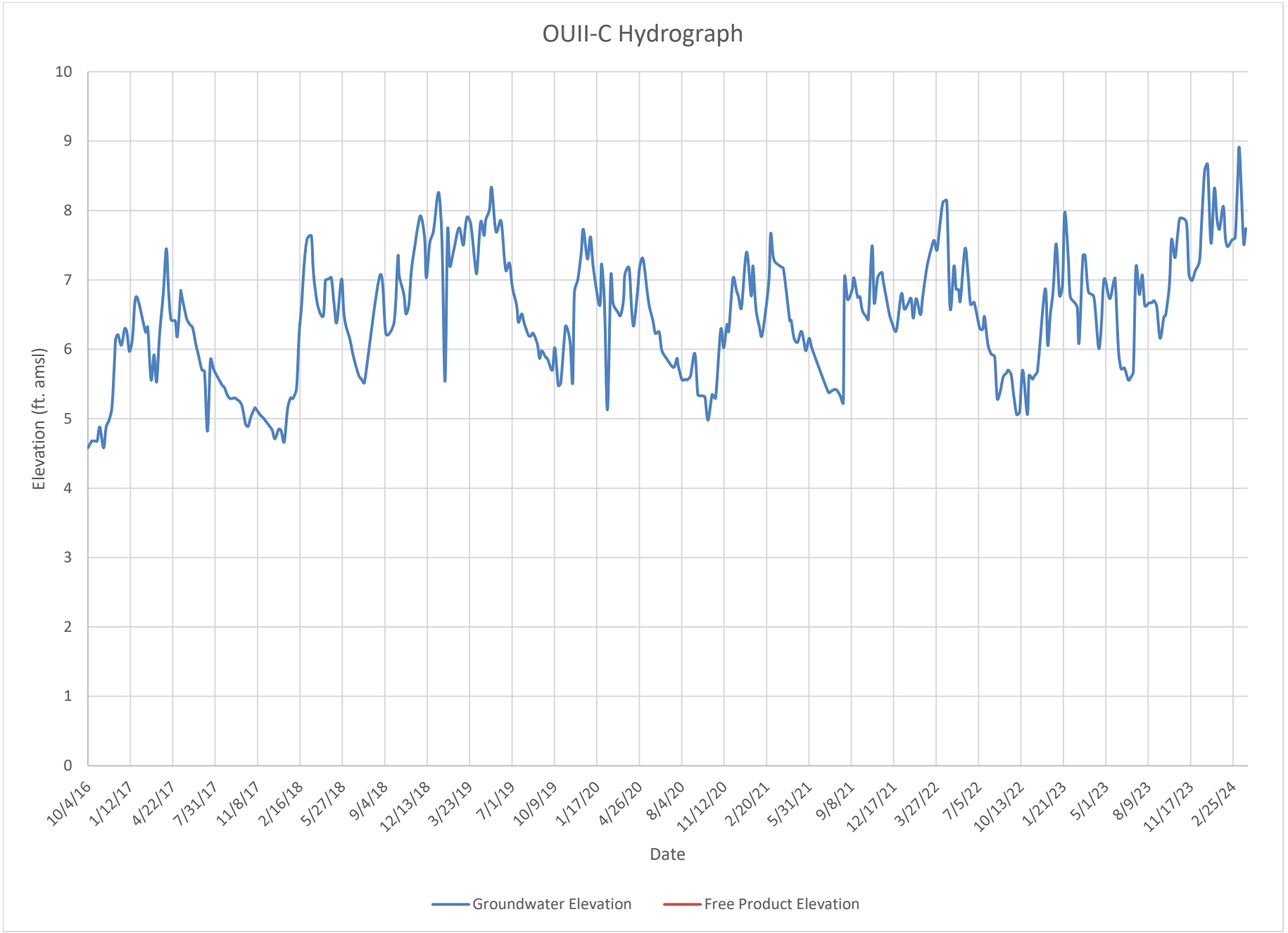
Readings collected during activities requiring continuous monitoring should be provided on a weekly basis with all exceedances reported to the Department and NYSDOH within 24 hours. In addition, each reported exceedance will cite the conditions encountered at the time of the exceedance, the subsequent corrective measures, and the results (if work is resumed) following the corrective measures.

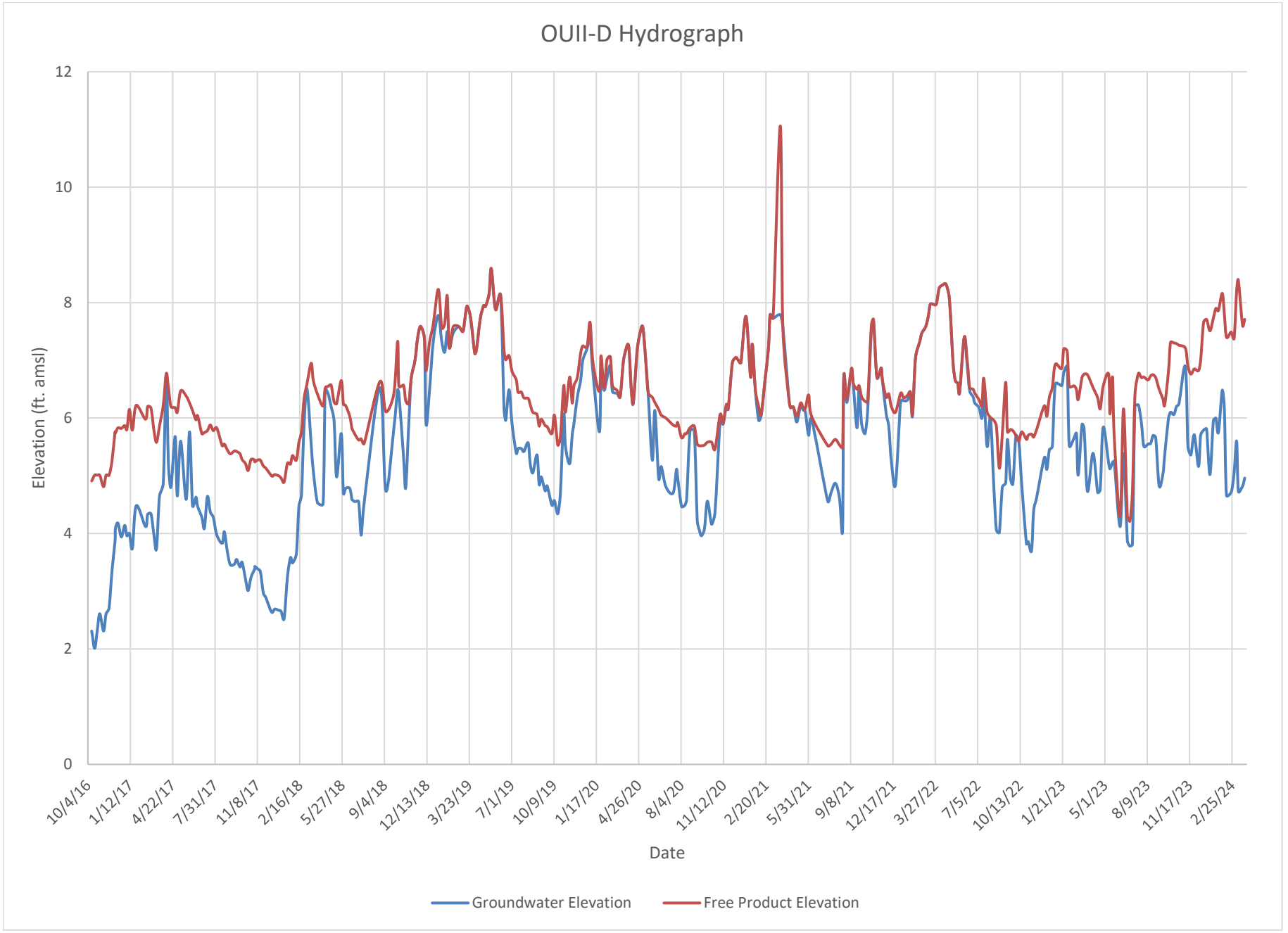
APPENDIX B

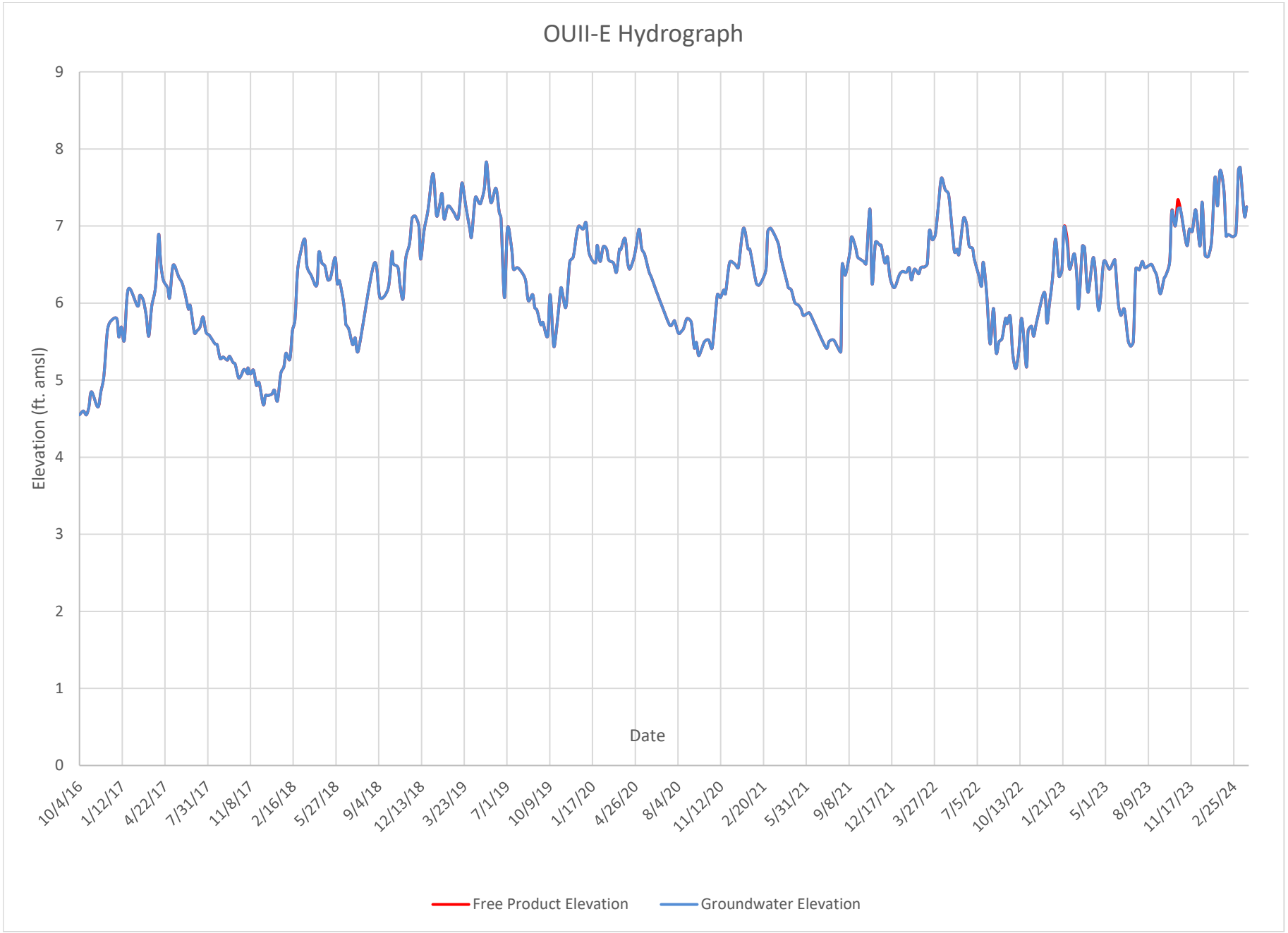
OU-II OFF-SITE WELL HYDROGRAPHS

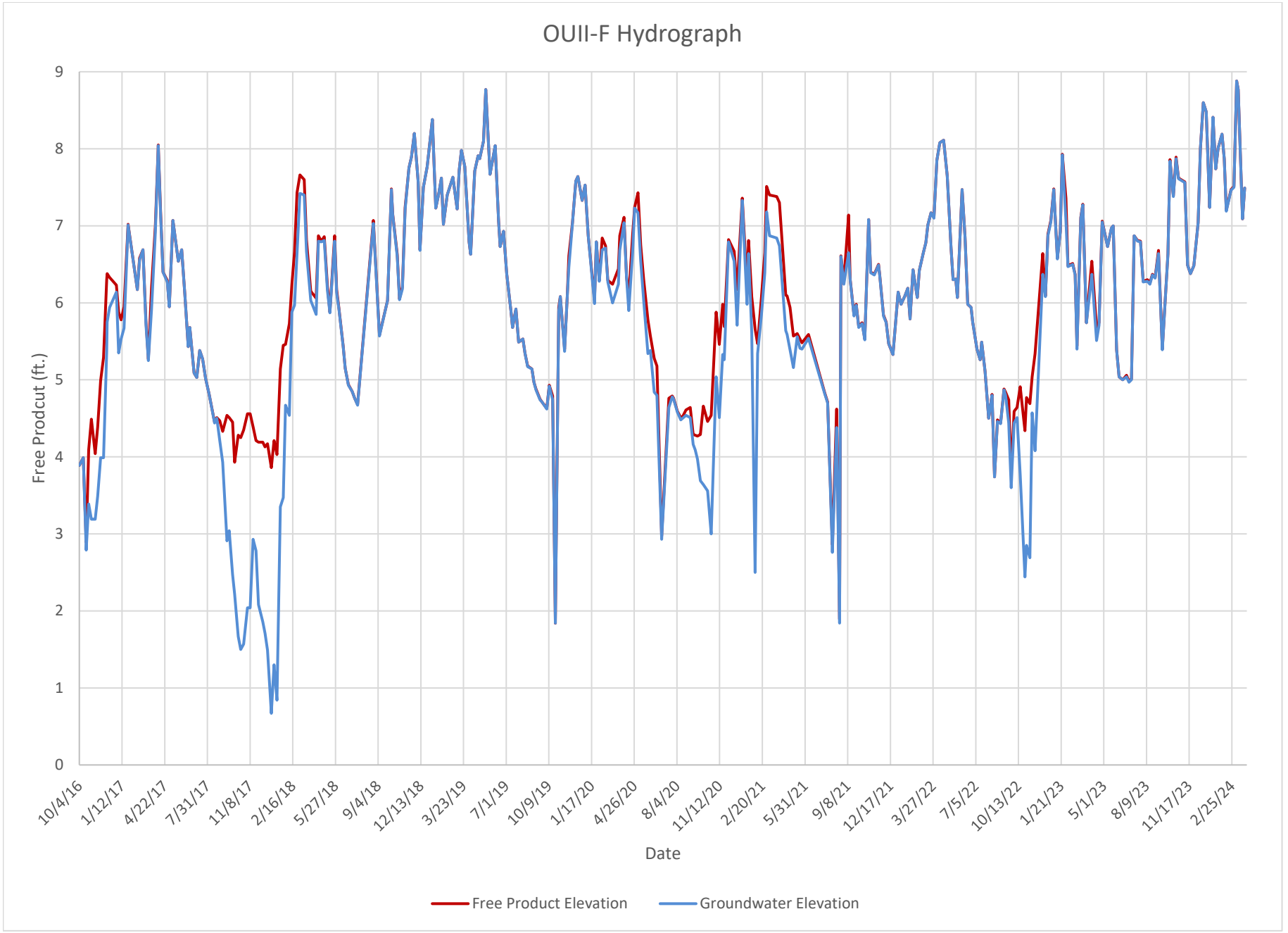

OUII-A Hydrograph
Elevation (ft. amsl)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Free Product Elevation
Groundwater Elevation

APPENDIX C

RAILROAD I/ CROTON POINT SANITARY LANDFILL SUBSURFACE MONITORING DATA PROVIDED BY WESTCHESTER COUNTY ON JANUARY 5, 2023

George Latimer
County Executive

Department of Environemtnal Facilities

Vincent Kopicki, P.E.
Commissioner

January 5, 2023

Via Electronic Mail Only
Gianazza@mnr.org

Sara M. Gianazza, Esq.
Senior Manager
Environmental Compliance and Services
Metro-North Railroad
525 North Broadway, 2nd Fl.
White Plains, NY 10603

Re: Railroad I/ Croton Point Sanitary Landfill

Ms. Gianazza:

We are in receipt of your letter dated October 31, 2022, and subsequent request for Brianna Scharf of NYSDEC dated December 9, 2022, regarding information about monitoring wells on site.

Attached are the documents that are available electronically. To the extent that additional documents may be available, they are located at the Landfill Office. You may schedule an appointment to view these documents by contacting Greg Stey at 914- 231-2845 or gps4@westchestergov.com.

It requested that these documents remain confidential and pursuant to New York State Public Officer's Law Section 89(5)(1-a), *et seq*., it is hereby requested that the drawings and site maps enclosed herein be excepted from disclosure under the New York State Freedom of Information Law ("FOIL") on the grounds that said document(s) contain crucial infrastructure information, the disclosure of which could endanger the life or safety of County personnel and the general public, as defined by POL Sec. 86(5). *See also*, POL Sec. 87(2)(f) and (i). The document(s) describe the locations, safeguards, equipment, and controls for the management of leachate and entry points to New York State waterways and/or tributaries. The document(s) show physical locations of the structures, including the construction of same. We believe that the drawings could be used to cause harm to someone with malicious intentions, and if that were the case, the environment, water quality, and human life could be impacted or impaired.

Moreover, the County has a long-standing policy of not sharing any flow schematics or other sensitive information for any of the outfalls and lines. This policy was instituted after September 11, 2001, and included removing previously posted pictures and schematics from the

270 North Avenue
New Rochelle, NY 10701
Telephone: 914-813-5416

County website. For these reasons, the County believes that public disclosure of the above-referenced materials would be contrary to its legitimate concern for the security of its facilities, the protection of its employees, and the protection of the general public and the environment. In addition, the County is hereby requesting that this letter be kept confidential on the same grounds. *See* POL Sec. 89(5)(1-a).

Thank you.

Sincerely,

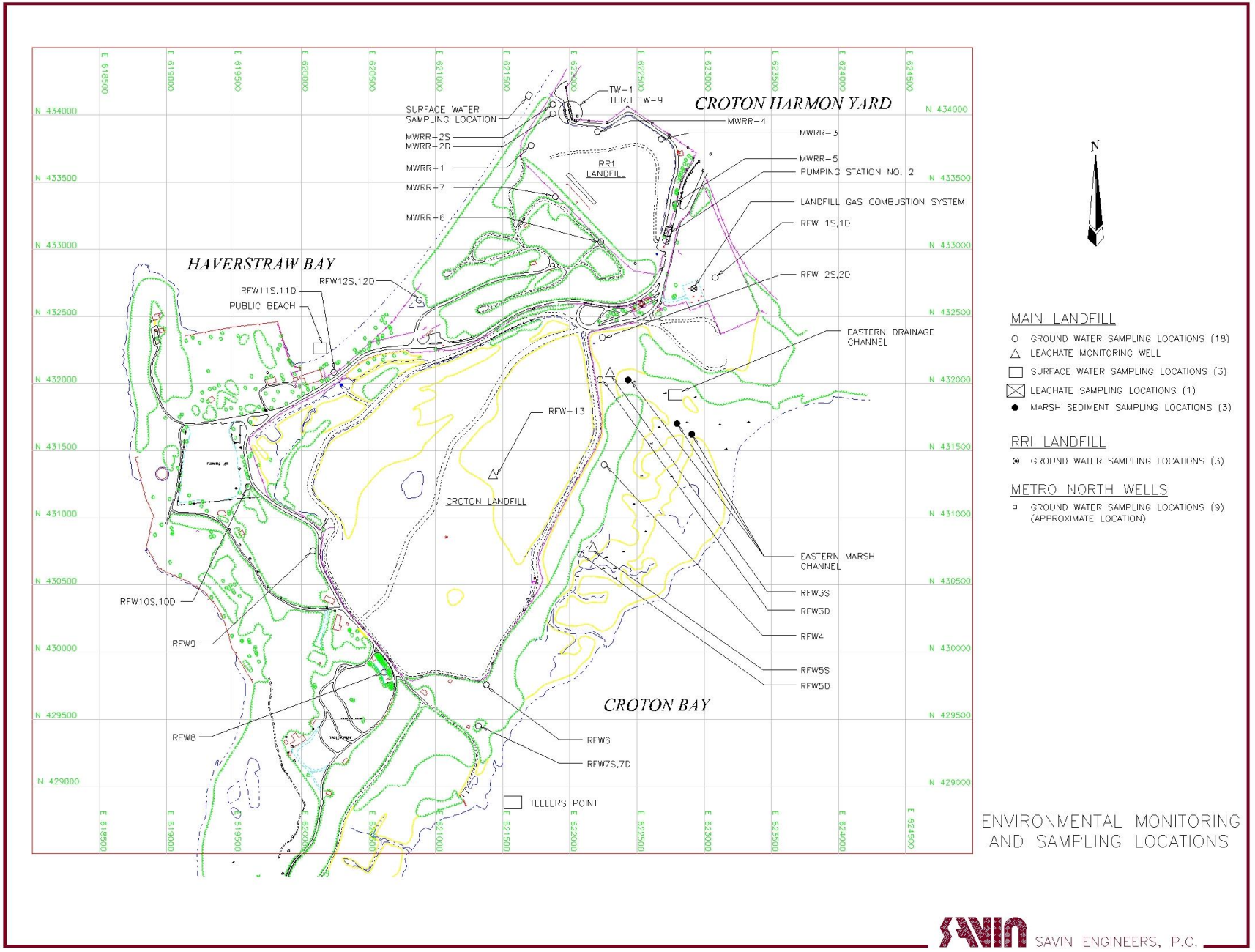
Melissa-Jean Rotini, Esq.
Assistant Commissioner

Enclosures

cc: David G. Pollock, P.E., Regional Environmental Quality Engineer
Brianna Scharf, Project Manager

Louis Vetrone, Esq., Deputy Commissioner
Greg Stey, Landfill Superintendent

Environmental Sampling and Locations Map for Croton & Railroad Sanitary Landfills



Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 4b: Leachate (RR Sump)

Constituent:	**DL/LOQ**	**Units**	**County Daily Wastewater Limits (Avg.)**	**RR Sump**	**RR sump**	**RR sump**	**RR sump**
Sampling Period:				**2018**	**2020**	**2021**	**2022**
Aluminum	50	ug/L		1140	74.7	183	<LOQ
Antimony	20	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	200	64.1	22	28.5	17.9
Barium	1	ug/L	2000	182	440	450	351
Beryllium	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	700	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	3000 (total)	<LOQ	11.1	<LOQ	10.4
Cobalt	10	ug/L		48.3	25.4	32.4	24.3
Copper	50	ug/L	2800	<LOQ	53.3	73.9	126
Lead	10	ug/L	400	<LOQ	<LOQ	<LOQ	<LOQ
Magnaese	10	ug/L		525	99.3	145	96.5
Nickel	10	ug/L	2800	71.9	89.1	91.1	69.6
Selenium	20	ug/L	200	<LOQ	<LOQ	<LOQ	22.4
Silver	20	ug/L	800	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	1800	2200	<LOQ	135	<LOQ
Biochemical Oxygen Demand	2	mg/L		160	80.4	122	59.3
ASP Total Cyanide	0.01	mg/L	0.8	0.033	0.119	0.094	0.014
Hexavalent Chromium, ASP	40	ug/L	2000	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	200	<LOQ	<LOQ	<LOQ	<LOQ
Corrosivity/pH	0.1	Units	5.5 (low)-9.5 (high)	7.37	7.19	7.33	7.04
Phenolics, Total Recoverable	0.025	mg/L		<LOQ	0.017	0.194	0.117
ASP Metal Digestion-Aqueous				Complete	Complete	Complete	Completed
Total kjeldahl nitrogen as N-ASP					400		

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Total Suspended Solids	2	mg/L		250	73	172	18
Total Toxic Organics		mg/L	2.1	0.00211	0.01422	0.010594	
4,4-DDD	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4,4-DDE	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4,4-DDT	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
a-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
a-Chlordane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Aldrin	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
b-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chlordane	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
d-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dieldrin	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan 1	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan 2	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan sulfate	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin aldehyde	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin ketone	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
g-Chlordane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Heptachlor	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Heptachlor epoxide	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Lindane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methoxychlor	0.1	ug/L		<LOQ	<LOQ	0.144	<LOQ
Toxaphene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1016	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1221	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1232	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
PBC-1242	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PBC-1248	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1254	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1260	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromo-3-chloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methyl Iodide	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,4-dichloro-2-butene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L		<LOQ	0.38	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
1,2-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L		<LOQ	2.13	1.51	1.49
2,2-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L		<LOQ	1.34	0.956	1.1
Bromobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L		2.11	7.78	5.94	5.97
Chloroethane	0.5	ug/L		<LOQ	0.38	0.25	<LOQ
Chloroform	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L		<LOQ	<LOQ	0.41	<LOQ
Hexachlobutadiene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L		<LOQ	0.861	<LOQ	0.506
Methyl iso-butyl ketone	2	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Methyl tert butyl ether	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L		<LOQ	4.61	2.04	3.05
N-Butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L		<LOQ	0.682	<LOQ	<LOQ
O-xylene	0.5	ug/L		<LOQ	0.552	<LOQ	<LOQ
P & M-xylene	1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-Trichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-Dichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-Dichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,4-Dichlorobenzene	5	ug/L		<LOQ	1.12	<LOQ	<LOQ
2,4,6-trichlorophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dichlorophenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dimethylphenol	5	ug/L		<LOQ	1.12	<LOQ	<LOQ
2,4- Dinitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dinitrotoluene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,6-Dinitrotoluene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
2-Chloronaphthalene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Chlorophenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Methyl-4,6-dinitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Nitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
3,3'-Dichlorobenzidine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Bromophenylphenylether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Chloro-3-methylphenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Chorophenylphenylether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Nitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acenaphthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Aceaphthylene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Azobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzidine	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(a)anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(a)pyrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(b)fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(g,h,i)perylene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(k)fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzyl butyl phthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-chloroethoxy)methane	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-chloroethyl)ether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-Ethylhexyl)phthalate	5	ug/L		<LOQ	<LOQ	2.06	17.6
Chrysene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibenzo(a,h)anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dithylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dimethylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Di-n-butylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Di-n-octylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Fluorene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorobutadiene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorocyclopentadiene	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachloroethane	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Indeno(1,2,3-cd)pyrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Isophrone	5	ug/L		<LOQ	1.86	<LOQ	<LOQ
Napthalene	5	ug/L		<LOQ	1.58	2.2	<LOQ
Nitrobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodimethylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodi-n-propylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodiphenylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Pentachlorophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Phenanthrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Phenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Pyrene	5	ug/L	4000	<LOQ	<LOQ	<LOQ	<LOQ
HEM;Oil & Grease Total recoverable	5	mg/L	100	<LOQ	<LOQ	97.3	5.87
Non-polar Extractable Material (TPH)	2.5	mg/L				6.82	2.57

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2D): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			57.75'	57.75'	57.75'	57.75'
Depth to Water, Tow (ft.)			9.09'	9.35'	9.2'	9.60'
Water Level Elevation (ft.):			48.66'	48.4'	48.5'	48.15'
TOC - TOW (ft.):			10.10'-9.09'	9.55'-9.35'	9.4'-9.2'	9.80'-9.60'
Boron	100	ug/L	133	126	171	189
Calcium	1000	ug/L	93800	67100	84900	85200
Iron	50	ug/L	1100	526	738	760
Magnesium	1000	ug/L	62300	45100	57400	56800
Potassium	100	ug/L	5880	4210	5210	4980
Sodium	1000	ug/L	61800	44900	56800	55900
Aluminum	50	ug/L	251	<LOQ	38	<LOQ
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	344	224	339	273
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	36.7	<LOQ	29.9	22.3
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	1070	738	1150	993
Nickel	10	ug/L	196	129	197	159
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	39.9	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	>500	>500	>500
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	2.2
Asp Calcium by ICP-AES	1000	ug/L	93800	67100	84900	85200
Chloride - ASP	5	mg/L	81	82	90	85
ASP Total Cyanide	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Chemical Oxygen Demand	5	mg/L	98	93	76	77
Color, Apparent	1	units	25	5	75	30
ASP Hardness as Calcium Carbonate	1	mg/L	490	350	450	450
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	62300	45100	57400	56800
Ammonia as N	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Nitrate Calculated	0.05	mg/L	<LOQ	<LOQ	<LOQ	0.136
Corrosivity/pH	0.1	units	7.39	7.22	7.22	7.12

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.008	Not Detected	0.0073
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	7.17	8.22	13.3	9.36
Total Dissolved Solids	2	mg/L	766	738	720	689.3
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.449	0.431	0.443	0.613
Total Organic Carbon	0.1	mg/L as C	35	29.5	28.6	32.5
Turbidity	0.02	NTU	7.98	4.1	198	3.84
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	4.86	6.69	6	7.24
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	2.2	2.66	2.22	2.35
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2D): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	7.05	9.71	8.45	10.7
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	1.18	1.63	1.24	1.25
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	0.572	0.769	0.511	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	1.14	3.09	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	0.578	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	1.14	1.74	1.22	1.15
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	0.9	0.862	0.632	0.707
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2S): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			29.20'	29.20'	29.20'	29.20'
Depth to Water, Tow (ft.)			10.09'	10.4'	10.15'	10.75'
Water Level Elevation (ft.):			19.11'	18.8'	19.05'	18.45'
TOC - TOW (ft.):			11.10'-10.09'	10.7'-10.4'	10.6'-10.15'	11.00'-10.75'
Boron	100	ug/L	148	144	136	<LOQ
Calcium	1000	ug/L	125000	112000	149000	129000
Iron	50	ug/L	1330	3210	15800	6650
Magnesium	1000	ug/L	53600	46900	64600	54000
Potassium	100	ug/L	5410	5030	7210	5080
Sodium	1000	ug/L	51200	41100	47600	42200
Aluminum	50	ug/L	872	1790	8770	3300
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	300	275	498	323
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	17.4	<LOQ
Cobalt	10	ug/L	39.8	30	47	26.7
Copper	50	ug/L	71.6	136	552	297
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	2830	2610	3990	2770
Nickel	10	ug/L	104	73.4	105	69.3
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	37.9	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	75.9	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	>500	>500	Invalid
BioChemical Oxygen Demand	2	mg/L	<LOQ	3.57	2.8	2.5
Asp Calcium by ICP-AES	1000	ug/L	125000	112000	149000	129000
Chloride - ASP	5	mg/L	77	85	105	100
ASP Total Cyanide	0.01	mg/L	<LOQ	0.012	0.005	<LOQ
Chemical Oxygen Demand	5	mg/L	114	97	75	90
Color, Apparent	1	units	20	10	50	20
ASP Hardness as Calcium Carbonate	1	mg/L	530	470	640	540
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	0.275	<LOQ
ASP Magnesium	1000	ug/L	53600	46900	64600	54000
Ammonia as N	0.05	mg/L	0.0752	0.0725	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Nitrate Calculated	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Corrosivity/pH	0.1	units	6.87	6.79	6.79	6.63

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.007	Not Detected	0.0087
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	45.7	58.7	57	58
Total Dissolved Solids	2	mg/L	854.7	802.7	876	860
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.644	0.708	0.492	0.846
Total Organic Carbon	0.1	mg/L as C	37.3	31.6	32.1	38.5
Turbidity	0.02	NTU	18.5	45.6	397	62.1
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	4.64	6.55	4.55	6.06
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2S): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Benzene	0.5	ug/L	1.68	1.57	1.12	1.14
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	5.48	6.36	4.59	5
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	0.647	0.739	<LOQ	0.59
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	0.68	13.3	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	0.61	0.934	0.53	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			26.88'	26.88'	26.88'	26.88'
Depth to Water, Tow (ft.)			11.5'	11.2'	11.6'	11.40'
Water Level Elevation (ft.):			15.38'	15.68'	15.28'	15.48'
TOC - TOW (ft.):			12'-11.5'	11.8'-11.2'	12.2'-11.6'	11.90'-11.40'
Boron	100	ug/L	<LOQ	54.2	<LOQ	<LOQ
Calcium	1000	ug/L	77100	66500	85300	108000
Iron	50	ug/L	2810	6220	6150	2720
Magnesium	1000	ug/L	21800	20500	24400	25500
Potassium	100	ug/L	5260	4520	4310	3630
Sodium	1000	ug/L	211000	177000	133000	71300
Aluminum	50	ug/L	<LOQ	227	584	61.3
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	14.2	14.1	<LOQ
Barium	10	ug/L	281	302	345	378
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	497	2070	1330	3550
Nickel	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	417	419	447	351
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	77100	66500	8530	108000
Chloride - ASP	5	mg/L	310	270	180	190
ASP Total Cyanide	0.01	mg/L	0.014	<LOQ	0.011	<LOQ
Chemical Oxygen Demand	5	mg/L	7	9	6	<LOQ
Color, Apparent	1	units	35	5	5	25
ASP Hardness as Calcium Carbonate	1	mg/L	280	250	310	380
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	21800	20500	24400	25500
Ammonia as N	0.05	mg/L	0.114	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	0.122	0.114	0.185	0.138
N-Nitrate Calculated	0.05	mg/L	3.18	1.13	2.2	3.61

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
Corrosivity/pH	0.1	units	7.4	7.6	7.37	7.16
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.007	Not Detected	0.0051
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	19.8	32.3	48.4	45.3
Total Dissolved Solids	2	mg/L	878	852	744	728
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.256	0.255	0.417	0.348
Total Organic Carbon	0.1	mg/L as C	0.812	0.933	1.22	1.74
Turbidity	0.02	NTU	22.1	34.8	28.8	44.3
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	1.5	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			15.85'	15.85'	15.85'	15.85'
Depth to Water, Tow (ft.)			6.5'	6.4'	6.9'	7.80'
Water Level Elevation (ft.):			9.35'	9.45'	8.9'	8.05'
TOC - TOW (ft.):			7.02'-6.5'	7.1'-6.4'	7.6'-6.9'	8.00'-7.80'
Boron	100	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Calcium	1000	ug/L	81900	44900	53700	68400
Iron	50	ug/L	2180	3440	7770	1220
Magnesium	1000	ug/L	28600	16900	19400	22400
Potassium	100	ug/L	6790	3580	4990	6820
Sodium	1000	ug/L	11800	12300	15900	130000
Aluminum	50	ug/L	980	990	2020	340
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	108	108	172	117
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	983	3130	3890	892
Nickel	10	ug/L	<LOQ	<LOQ	10.4	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	170	200	134
Alkalinity as Calcium Carbonate	5	mg/L	282	237	23	316
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	81900	44900	53700	68400
Chloride - ASP	5	mg/L	5	7	31	205
ASP Total Cyanide	0.01	mg/L	0.015	<LOQ	0.11	0.005
Chemical Oxygen Demand	5	mg/L	35	25	8	<LOQ
Color, Apparent	1	units	30	5	75	20
ASP Hardness as Calcium Carbonate	1	mg/L	320	180	210	260
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	28600	16800	19400	22400
Ammonia as N	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	0.0159	<LOQ
N-Nitrate Calculated	0.05	mg/L	0.327	0.226	0.337	1.8
Corrosivity/pH	0.1	units	6.94	7.25	7.2	7

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.005	Not Detected	0.006
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	32.7	28.7	21.7	16
Total Dissolved Solids	2	mg/L	338	296	236	694
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	1.04	0.612	0.911	0.469
Total Organic Carbon	0.1	mg/L as C	10.2	4.92	3.93	2.94
Turbidity	0.02	NTU	21	50.4	165	14.4
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR5): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			19.35'	19.35'	19.35'	19.35'
Depth to Water, Tow (ft.)			11.04'	11.25'	11.5'	11.50'
Water Level Elevation (ft.):			8.31'	8.1'	7.85'	7.85'
TOC - TOW (ft.):			11.07'-11.04	.55'-11.25'	11.8'-11.5'	11.70'-11.50'
Boron	100	ug/L	<LOQ	64.3	52.7	<LOQ
Calcium	1000	ug/L	152000	101000	103000	133000
Iron	50	ug/L	5810	4040	4350	3630
Magnesium	1000	ug/L	29300	16600	18200	22900
Potassium	100	ug/L	7200	5440	4880	5280
Sodium	1000	ug/L	106000	57700	20800	24500
Aluminum	50	ug/L	<LOQ	<LOQ	111	<LOQ
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	218	147	158	132
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	1060	682	1200	802
Nickel	10	ug/L	10.4	<LOQ	<LOQ	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	474	366	451
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	152000	101000	103000	133000
Chloride - ASP	5	mg/L	180	60	21	65
ASP Total Cyanide	0.01	mg/L	<LOQ	0.012	0.006	<LOQ
Chemical Oxygen Demand	5	mg/L	12	24	13	6
Color, Apparent	1	units	20	60	15	40
ASP Hardness as Calcium Carbonate	1	mg/L	500	320	330	430
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	29300	16600	18200	22900
Ammonia as N	0.05	mg/L	0.533	0.383	0.201	0.291
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	0.0285	0.0306	0.027
N-Nitrate Calculated	0.05	mg/L	<LOQ	0.506	0.368	0.568
Corrosivity/pH	0.1	units	6.75	6.89	7.1	6.87

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.006	Not Detected	0.0079
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	40	32.9	30.2	21
Total Dissolved Solids	2	mg/L	872	632	480	642
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	1.03	1.05	0.881	0.936
Total Organic Carbon	0.1	mg/L as C	3.77	8.38	5.31	6.47
Turbidity	0.02	NTU	10.6	1.76	24.6	17.8
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	0.25	0.31	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	0.525	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey
DATE/TIME	6/29/22 710
WELL	RR-1
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS — ID #'s

TVA - 2020 — A3A4B2

U - 10 — 707062

SAMPLING DATA

METHOD: BAILER

START TIME: 715

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	27.05
TOC 20.70 TOW	20.40
LENGHT OF COLUMN	6.65 X .16
VOLUME	1.06 X 3
EVAC. GALLONS	3.1
EVAC. METHOD	Bailer
GALLONS REMOVED	3
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
715	1	7.90	0.763	32.6	16.87
720	2	7.11	1.04	34.0	16.81
725	3	7.06	1.05	33.7	16.52

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	5.0	6.3	6.7	5.0

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 495, 666
C: 0120	CR:	D: 1740	E: 3391
F: 8		G: 4874	S: 3358
EXP K: 8755, 9167, 9085		K: 8158, 8501, 8376	K:

NOTES: 1,4 = 34, 31

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 710	TVA - 2020	A3A4B2
WELL	RR - 25	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 745	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	29.20
TOC 11.00 TOW	10.75
LENGHT OF COLUMN	18.45 X .16
VOLUME	2.9 X 3
EVAC. GALLONS	8.8
EVAC. METHOD	Bailer
GALLONS REMOVED	9
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
745	3	7.24	1.04	22.2	17.67
800	6	6.90	107	291	16.29
815	9	7.06	1.06	47.6	17.42

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	-	—	—
FID	10.5	11.6	11.6	11.6

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 1080, 7606
C: 0114	CR:	D: 1205	E: 4038
F: 384		G: 5083	S: 3364
EXP K: 2187, 0288, 7758		K: 7124, 8517, 9088	K:

NOTES: 1,4 = 28, 32

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 710	TVA - 2020	A3A4B2
WELL	RR-2D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Pump
		START TIME:	715

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	57.75
TOC 9.80 TOW	9.60
LENGHT OF COLUMN	48.15 X .16
VOLUME	7.7 X 3
EVAC. GALLONS	23.11
EVAC. METHOD	pump
GALLONS REMOVED	24
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
715	8	7.46	0.879	9.1	18.62
725	16	7.33	0.936	9.1	17.02
735	24	7.35	0.948	9.2	16.50

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	13.0	13.7	12.7	10.6

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 786, 738
C: 0205	CR:	D: 1527	E: 3472
F: 235		G: 4980	S: 3354
EXP K: 8884, 8757, 9084		K: 9107, 9074, 8615	K:

NOTES: 1,4 = 33, 35

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 9:50	TVA - 2020	A3A4B2
WELL	RR-3	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 10:00	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	26.88
TOC 11.90 TOW	11.40
LENGHT OF COLUMN	15.48 X .16
VOLUME	2.47 X 3
EVAC. GALLONS	7.43
EVAC. METHOD	Bailer
GALLONS REMOVED	8
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1005	3	7.58	0.934	28.1	18.27
1015	6	7.41	1.07	22.8	17.53
1025	8	7.44	1.06	35.1	17.19

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	10.6	N/A	10.4	11.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 373, 1088
C: 0128 CR:	D: 1366	E: 3352
F: 170	G: 5014	S: 3362
K: 6222, 7413 Exp	K: Exp 810, 1829	K: 0717, 2884

NOTES: Exp 1,4 30, 29

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 900	TVA - 2020	A3A4B2
WELL	RR-4	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	905

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	15.85
TOC 8.00 TOW	7.80
LENGHT OF COLUMN	8.05 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.8
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
905	1	7.24	0.563	61.5	20.74
915	2.5	7.26	0.928	24.7	19.87
925	4	7.10	0.971	43.6	19.69

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
FID	11.1	N/A	10.5	10.5

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 999, 1246
C: 0111 CR:	D: 1267	E: 3267
F: 299	G: 5114	S: 3348
EXP K: 8151, 9101, 7449	K: 8383, 5227, 7457	K:

NOTES: 1,4 = 27, 26

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 1035	TVA - 2020	A3A4B2
WELL	RR-5	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 1035	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	19.35
TOC 11.70 TOW	11.50
LENGHT OF COLUMN	7.85 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.7
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1040	1	7.42	0.908	34.0	17.99
1050	2.5	7.19	0.882	22.4	17.44
1100	4	7.09	0.851	19.0	16.98

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	9.1	8.9	8.9	8.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 410, 1219
C: 0133 CR:	D: 1590	E: 4114
F: 113	G: 5069	S: 3356
K: 8719 EXP, 8116 EXP	K: 8690, 9094	K: 5773, 7589

NOTES: 1,4 25, 20 EXP

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/29/22 845	TVA - 2020	A3A4B2
WELL	RR-6	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: BAILER	
		START TIME: 845	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	77.65
TOC 69.40 TOW	69.40
LENGHT OF COLUMN	8.25 X .16
VOLUME	1.32 X 3
EVAC. GALLONS	3.96
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
845	1	7.22	0.726	267	18.39
900	2	7.59	0.712	65.1	18.41
915	4	7.25	0.737	22.2	18.51

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.0	—	3.0	3.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1291, 934
C: 0108 CR:	D: 1032	E: 4048
F: 694	G: 5156	S: 3361
EXP K: 8829, 8673, 4395	K: 9083, D193, 8040	K:

NOTES: 1,4 = 15, 16

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/29/22 745	TVA - 2020	A3A4B2
WELL	RR-7	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: BAILER	
		START TIME: 755	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	75.80
TOC 69.00 TOW	68.70
LENGHT OF COLUMN	7.1 X .16
VOLUME	1.1 X 3
EVAC. GALLONS	3.4
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
800	1	6.72	1.22	9.3	17.78
810	2	6.84	1.29	14.7	17.32
820	4	6.77	1.27	10.2	17.19

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.9	3.8	3.8	3.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1257, 1098
C: 1000 CR:	D: 1675	E: 4051
F: 300	G: 4655	S: 3328
EXP K: 8715, 8489, 4334	K: 8644, 1325, 7959	K:

NOTES: 1,4 = 24, 14

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 700	TVA - 2020	A3A4B2
WELL	RFW-1S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	735

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.85
TOC 6.80 TOW	6.60
LENGHT OF COLUMN	11.25 X .16
VOLUME	1.8 X 3
EVAC. GALLONS	5.4
EVAC. METHOD	BAILER
GALLONS REMOVED	6
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
740	2	7.20	1.25	139	17.76
745	4	7.33	1.10	47.8	17.46
750	6	7.18	1.10	57	17.97

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.7	802	300	7.4

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1041, 444
C: 0157 CR:	D: 0473	E: 3484
F: 679	G: 4965	S: 3341
EXP K: 8417, 5595, 8092	K: 8647, 2433, 9093	K:

NOTES: 1,4 = 18, 22

High turb even after 24hrs

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	6/30/22 700
WELL	RFW-1D
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: Pump

START TIME: 730

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	50.90
TOC 2.50 TOW	2.00
LENGHT OF COLUMN	48.9 X .65
VOLUME	31.7 X 3
EVAC. GALLONS	95.3
EVAC. METHOD	Pump
GALLONS REMOVED	96
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
730	32	7.35	11.1	292	18.04
830	64	7.43	11.5	17.8	17.46
	96	Well	not	recovering	
		Sample taken when recovered			

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.6	1.93	1.83	9.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 592, 781
C: 0153 CR:	D: 0842	E: 3341
F: 376	G: 5115	S: 3365
K: 8130, 9019	K: 3271, 9125 Exp	K: 8625 Exp, 6494 Exp

NOTES: 1, 4 36, 13

Well not recovering

PAGE 1 OF 1

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 930	TVA - 2020	A3A4B2
WELL	RFW-2S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	945

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	20.62
TOC 6.80 TOW	6.30
LENGHT OF COLUMN	14.32 X .16
VOLUME	2.2 X 3
EVAC. GALLONS	6.8
EVAC. METHOD	BAILER
GALLONS REMOVED	7
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
950	2	7.31	2.07	57.0	20.11
955	5	7.19	1.59	47.2	19.21
1005	7	7.26	1.41	20.6	18.42

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.9	49.1	42.1	2.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 977,113
C: 0143 CR:	D: 5017	E: 3306
F: 41	G: 5011	S: 3329
EXP K: X8685 ;1846 ;8015	K: 8363 ;6677 ;6324	K:

NOTES: 40, 45

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 930	TVA - 2020	A3A4B2
WELL	RFW-2D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 945	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	85.40
TOC 7.20 TOW	6.90
LENGHT OF COLUMN	78.5 X .65
VOLUME	51.0 X 3
EVAC. GALLONS	153
EVAC. METHOD	Pump
GALLONS REMOVED	153
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1015	51	7.22	1.96	11.0	17.81
10:45	102	7.93	1.71	8.4	21.65
11:00	153	7.39	1.68	8.7	22.33

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.8	9.0	9.0	2.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B: [redacted]		PP: C:	B: 419, 813
C: 0121	CR:	D: 7298	E: 3295
F: 286		G: 4907	S: 3331
*EXP K 8708; 9154; 8707		K: 1348, 7505, 0746	K:

NOTES: 39, 42

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	715 7/6/22	TVA - 2020	A3A4B2
WELL	RFW-3D	U - 10	707062
WEATHER	Partly Cloudy	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 715	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	95.50
TOC 5.40 TOW	5.10
LENGHT OF COLUMN	90.4 X .16
VOLUME	14.4 X 3
EVAC. GALLONS	43.3
EVAC. METHOD	Pump
GALLONS REMOVED	44
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
735	14	7.66	1.14	10.9	20.50
745	28	7.61	1.01	9.1	20.14
755	44	7.69	1.00	8.7	20.59

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	6.1	406	252	6.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 790, 982
C: 0124	CR:	D: 1211	E: 4066
F: 129		G: 4973	S: 3330
~~K~~ EXPK 8933, 8968, 8289		K: 8965, 8742, 8740	K:

NOTES: 37, 38

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/6/22 810	TVA - 2020	A3A4B2
WELL	RFW-4	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 815	

EVACUATION DATA	
WELL DIAMETER	4"
WELL DEPTH	32.50
TOC 7.70 TOW	7.25
LENGHT OF COLUMN	25.25 X .65
VOLUME	16.4 X 3
EVAC. GALLONS	49.2
EVAC. METHOD	Bailer
GALLONS REMOVED	49
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
830	16	7.25	4.80	11.7	20.74
8:45	32	7.27	4.90	9.2	19.75
855	49	6.91	5.26	9.3	19.70

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	56.3	20.7	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 462; 1016
C: 0136	CR:	D: 1378	E: 3487
F: 699		G: 4495	S: 3326
K EXP K4122; 8491; 8627		K: K2108; 2162; 2651	K:

NOTES: 46.41

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/6/22 910	TVA - 2020	AJA4B2
WELL	RFW-5D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	pump
		START TIME:	920

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	74.90
TOC 6.70 TOW	6.30
LENGHT OF COLUMN	68.6 X .65
VOLUME	44.59 X 3
EVAC. GALLONS	133
EVAC. METHOD	Pump
GALLONS REMOVED	133
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
940	44	7.49	3.13	22.3	21.70
1030	88	7.36	3.25	14.5	21.18
1130	133	7.45	3.26	11.0	20.80

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.3	1.8	2.0	2.3

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 246, 654
C: 0036 CR:	D: 7436	E: 3435
F: 405	G: 5112	S: 3339
~~K: EXP~~ K: 8346; 8499; 8313	K: 1962, 3812, 1513	K:

NOTES: 43, 47

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	7/7/22 720
WELL	RFW-6
WEATHER	Partly Cloudy
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: BAILER

START TIME: 720

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	63.50
TOC 58.50 TOW	59.60
LENGHT OF COLUMN	5.9 X .65
VOLUME	3.8 X 3
EVAC. GALLONS	11.5
EVAC. METHOD	BAILER
GALLONS REMOVED	12
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
725	4	7.01	3.12	9.9	21.78
730	8	7.31	3.28	31.4	21.00
735	12	7.22	3.29	35.8	21.18

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	6.8	N/A	5.4	5.5

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1040, 902
C: D118 CR:	D: 7306	E: 3433
F: 55	G: 4836	S: 3351
EXP K: 6894, 7744, 9050	K: 7759, 3066, 8372	K:

NOTES: 1,4 = 44,65

PAGE 1 OF 1

SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 820	TVA - 2020	A3A4B2
WELL	RFW-7S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	820

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.50
TOC 9.80 TOW	9.20
LENGHT OF COLUMN	8.3 X .16
VOLUME	1.3 X 3
EVAC. GALLONS	3.9
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
8:25	1	7.77	0.63	147	18.87
8:30	2.5	7.77	0.50	129	18.94
9:30	4	7.40	0.47	49.9	18.26

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	3.2	3.2	3.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1289, 425
C: 1002 CR:	D: 6998	E: 3135
F: 425	G: 5168	S: 3327
K: 6754, 2014, 6675	K: 7466, 8447, 2631	K:

GRD

NOTES: 1,4 = 64, 67

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 @ 830	TVA - 2020	A3A4B2
WELL	RFW-70	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 8:30 AM	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	46.70
TOC 8.70 TOW	8.30
LENGHT OF COLUMN	38.4 X .65
VOLUME	24.9 X 3
EVAC. GALLONS	74.8
EVAC. METHOD	Pump
GALLONS REMOVED	75
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
8:45	25	8.31	0.24	11.4	17.49
9:00	50	8.29	0.25	9.8	17.01
9:20	75	8.33	0.25	9.3	17.32

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	3.1	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 968, 414
C: 0137 CR:	D: 1463	E: 3427
F: 245	G: 4755	S: 3355
K: 6783, 6387, 6657 (EP)	K: 9003, 8572, 8626	K:

NOTES: 1,4 = 69, 66

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 10:00Am	TVA - 2020	A3A4B2
WELL	RFW-8	U - 10	707062
WEATHER	SUNNY	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	10:00 Am

EVACUATION DATA	
WELL DIAMETER	4"
WELL DEPTH	53.95
TOC 49.30 TOW	48.80
LENGHT OF COLUMN	5.15 x .65
VOLUME	3.34 x 3
EVAC. GALLONS	10.0
EVAC. METHOD	Bailer
GALLONS REMOVED	10
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
10:05	3.5	7.35	1.42	85.6	18.50
10:30	7	7.35	1.40	165	18.58
11.00	10.0	7.38	1.37	38.0	18.88

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.2	2.2	2.2	2.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 988, 1233
C: 1527 CR:	D: 1490	E: 3462
F: 123	G: 5101	S: 3352
EXP K: 8502, 8330, 1601	K: 8155, 229, 9072	K:

NOTES: 1,4 = 68, 62

PAGE 1 OF 1 SIGNATURE: Richard a. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	7/11/22 715
WELL	RFW-10S
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: Bailer

START TIME: 725

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.95
TOC 10.50 TOW	9to.90
LENGHT OF COLUMN	8.05 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.8
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
725	1.2	7.18	1.86	133	20.25
730	2.4	7.18	1.92	34.9	17.35
735	3.8	7.18	2.02	50.9	16.88
				48.2	

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	5.8	4.6	5.3	5.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 324; 1278
C: 0079 CR:	D: 0975	E: 3350
F: 104	G: 5046	S: 3347
EXP K: 6048; 6595; 6368	K: 4587; 7121; 7660	K:

NOTES: 1,4 - 50, 63

PAGE 1 OF 1

SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 715	TVA - 2020	A3A4B2
WELL	RFW-100	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: pump	
		START TIME: 720	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	44.90
TOC 10.00 TOW	9.00
LENGHT OF COLUMN	35.9 X .65
VOLUME	23.3 X 3
EVAC. GALLONS	70
EVAC. METHOD	pump
GALLONS REMOVED	~~70~~ 25
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
740	23	8.30	0.425	11.5	18.75
750	46	Took sample after 1 volume			
	70				

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.3	4.9	5.7	6.0

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 694, 702
C: 0160 CR:	D: 1217	E: 3490
F: 139	G: 5080	S: 3350
K: 6508, 2337, 5540	K: 6819, 6695, 4074	K:

NOTES: 1,4 = 52, 51 Well not recovering took sample after 1 well volume

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/20 830	TVA - 2020	AJA482
WELL	RFW - 11S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 835	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	11.45
TOC 7.40 TOW	3.8
LENGHT OF COLUMN	7.65 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.6
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
840	1.2	7.61	0.528	287	21.09
855	2.4	7.39	0.800	V29	21.11
910	3.6	7.47	0.854	36.2	20.85

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	1013	3.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 665, 1067
C: 1521 CR:	D: 7695	E: 3134
F: 656	G: 4676	S: 3346
EXP K: 6329, 6655, 6619	K: 9052, 6767, 7244	K:

NOTES: 1,4 = 55, 58

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 830	TVA - 2020	A3A4B2
WELL	RFW - 11D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 830	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	75.85
TOC 4.00 TOW	3.80
LENGHT OF COLUMN	72.05 X .65
VOLUME	46.8 X 3
EVAC. GALLONS	140
EVAC. METHOD	Pump
GALLONS REMOVED	140
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
840	46	7.08	4.40	10.0	18.21
925	92	7.03	4.39	10.5	20.14
945	140	7.33	4.54	7.9	19.71

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	3.7	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 647, 585
C: 0103 CR:	D: 7292	E: 3315
F: 622	G: 5041	S: 3336
EXP K: 1894, 6722, 8997	K: 1516, 8371, 8906	K:

NOTES: 1,4 = 53,54

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 950	TVA - 2020	A3A4B2
WELL	RFW-12S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	950

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	15.90
TOC 5.90 TOW	4.80
LENGHT OF COLUMN	11.1 X .16
VOLUME	1.77 X 3
EVAC. GALLONS	5.3
EVAC. METHOD	Bailer
GALLONS REMOVED	5.5
STICK UP	

EVACUATION CHEMS

TIME	CALS	PH	COND	TURB	TEMP
	PP				
1010	1.7	7.65	0.401	107	22.38
1015	3.4	7.56	0.377	67.4	19.08
1020	5.3	7.59	0.367	28.6	18.88

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.5	N/A	4.4	2.3

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 426, 270
C: 0122 CR:	D: 5000	E: 4112
F: 11	G: 4890	S: 3337
EXP K: 6716, 6376, 2177	K: 8320, 6966, 8072	K:

NOTES: 1, 4 = 56, 57

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 950	TVA - 2020	A3A4B2
WELL	RFW-12D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Pump
		START TIME:	950

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	45.90
TOC 5.4 TOW	4.40
LENGHT OF COLUMN	41.5 X .65
VOLUME	26.9 X 3
EVAC. GALLONS	80.9
EVAC. METHOD	Pump
GALLONS REMOVED	81
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1005	27	7.45	1.72	17.5	19.39
1030	54	7.92	0.398	75.9	18.72
1055	81	7.50	1.39	11.0	18.40

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.4	N/A	2.1	2.4

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 784, 576
C: 0150 CR:	D: 7236	E: 3292
F: 621	G: 6121	S: 3324
EXP K: 6730, 6721, 6439	K: 6371, 2152, 6735	K:

NOTES: 1,4 = 59, 60

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/5/22

Project No

Equipment/Meters

ID #'S

Sampler(s) Stey & Duval

Weather/Temp Cloudy 75°

Sample Location I D Bend Right SRF-2A

Sample Type BASELINE

Sample No

Site Description

Notes

S3353, B1251, B944, C0996, D1107, E4033, F331, G5010, EXP K 7408, EXP K 7414, EXP K 9138, K6119, K6713, K8198, 3, 6

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) No Odor, clearish

Approximate depth to bottom 3 ft

			METER READINGS					
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
900			26.62	9.16	8.42			25.3

Comments

Sampler Signature Richard A Duval

Effective Date May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/5/22

	Equipment/Meters	ID #'S
Project No		
Sampler(s) Duval & Stey		
Weather/Temp Cloudy 75°		
Sample Location I D Beach Left SRF-2B		
Sample Type BASELINE		
Sample No		

Site Description

Notes

S3360, B1256, B775, C0126, D1188, E3183, F283, G5009, EXP K0105, K7518 exp, K8501 exp, K6374, K6858, K2396, 12, 9

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) No Odor, clearish

Approximate depth to bottom 3ft

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
915			26.71	9.07	8.39			25.7

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Stey & Duval
Weather/Temp RR Sump #1
Sample Location I.D. ~~BS #2~~ Leachate
Date/Time 730 7/5/22
Sample Type BASELINE
Sample No.
Site Description:

Equipment/Meters

ID#'s

Notes: C0146, E3246, F714, H724, S3342, ExPK6755, 6331, 6540, KM663, 6753, 6653, I4783, 4776, 4750, 4629, 4691, 4428, 4497, 4409, 284

Condition of wet well (defects, level, swell, etc...) No defects found

Describe Leachate (color, foam, etc...) Yellow & little to no foam

Estimate flow in each incoming pipe (as possible) No flow visable

METER READINGS

Time	~~OVA~~	~~HNu~~								
730	BZ	HS	8Z							
FID	9.0	5.7	6.3							

Comments:

Sampler Signature/Date:

LEACHATE SAMPLING
FIELD DATA SHEET

		Equipment/Meters	ID#'s
Project No.			
Sampler(S)	Duval & Stey		
Weather/Temp	Cloudy, 72°		
Sample Location I.D.	RR Sump #1 Leachate Duplicate		
Date/Time	730 7/5/22		
Sample Type	Baseline		
Sample No.			

Site Description: _____

Notes: C016, E3274, F305, H404, S3336, ExPK67416, 6553, 64165, K8269, 7796, 8704 I 4800, 3163, 4504, 274, 4719, 4546, 4862, 4454, 4869

Condition of wet well (defects, level, swell, etc...) No defects found

Describe Leachate (color, foam, etc...) yellow & little to no foam

Estimate flow in each incoming pipe (as possible) No flow visable

METER READINGS

Time	~~OVA~~	~~HNU~~								
730	BZ	HS	BZ							
FID	9.0	5.7	6.3							

Comments: _____

Sampler Signature/Date: _____

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Stey & Duval
Weather/Temp Cloudy 45°
Sample Location I.D. P.S. #2
Date/Time 7/6/22 810
Sample Type ~~Baseline~~ leachate
Sample No.
Site Description:

Equipment/Meters | ID#'s

Notes: LD700, E4018, F683, H268, 53343, EXPK1733, 6830, 1739, K2676, 6748, 5601, I 4767, 4718, 466, 4741, 4724, 4498, 4797, 4439, 4856

Condition of wet well (defects, level, swell, etc...) No defects

Describe Leachate (color, foam, etc...) Heavy oder, Dark, sludge

Estimate flow in each incoming pipe (as possible) Heavy flows, pumps on

METER READINGS

Time	~~OVA~~	~~HNu~~								
810	BZ	HS	BZ							
FID	9.9	38.7	6.6							

Comments:

Sampler Signature/Date:

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Duvall & Stey
Weather/Temp Cloudy 75°
Sample Location I.D. P.S. #02 Duplicate
Date/Time 7/5/22 8:45
Sample Type ~~Bulk Liquid~~ Leachate
Sample No.
Site Description:

Equipment/Meters

ID#'s

Notes: C0059, C3417, F393, H541, S3340, EXP K16764, 7086, 5160, K7006, 6534, 0461, I4781, 4836, 116, 4744, 4575, 4721, 4722, 461, 4478

Condition of wet well (defects, level, swell, etc...) No defects

Describe Leachate (color, foam, etc...) Heavy Oder, Dark, sludge

Estimate flow in each incoming pipe (as possible) Heavy Flow, pumps on

METER READINGS

Time	~~OVA~~	~~HNu~~								
810	BZ	HS	BZ							
FID	9.9	38.7	6.6							

Comments:

Sampler Signature/Date:

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No | Equipment/Meters | ID #'S

Sampler(s): Stey & Duval

Weather/Temp Sunny 85°

Sample Location I D Tellers Point Left SRF-1B

Sample Type BASELINE

Sample No

Site Description

Notes

S3334, B524, B1099, C1001, D1026, E4011, F640, G5178, EXP. K7592, EXP K8956, EXP K8267, K7058, K6545, K6388, 11, 10

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow Yellow, Odorless

Description of water (color, odor, etc)

Approximate depth to bottom 3 ft

METER READINGS

Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
905			26.01	14.1	7.46			22.0

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 2/13/22

Project No

Equipment/Meters

ID #'S

Sampler(s): Duval & Stay

Weather/Temp Sunny 85°

Sample Location I.D Tellers Point Right SRF-1A

Sample Type Baseline

Sample No

Site Description

Notes S3345, B1085, B1090, C0100, D1349 E4119, F209, G-5004, EXP K7556, EXP K9114, EXP K8969, K8972, K7055, K1581, 5, 08

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow yellow, odorless

Description of water (color, odor, etc)

Approximate depth to bottom 3ft

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
900			26.22	14.1	8.18			21.4

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No

Sampler(s) Duval & Stey

Weather/Temp Sunny 85°

Sample Location I D MARSH Left SRF-3B

Sample Type BASELINE

Sample No

Equipment/Meters

ID #'S

Site Description

Notes S 3325, B 715, B 1036, C 0138, D 1311, E 4058
F 697, G 4823, EXP K 7849; 8908; 0176, K 6620; 5123; 8517;
02, 01

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) Yellow, Odorless

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
915			25.89	14.3	7.51			21.9

Comments

Sampler Signature Richard A. Duval

Effective Date May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No

Equipment/Meters

ID #'S

Sampler(s) Stey & Duval

Weather/Temp Sumy 85°

Sample Location I D MARSH Right SRF-3A

Sample Type BASELINE

Sample No

Site Description

Notes S3332, B187, B1277, C0129, D0669, E3489, F312, G4653
EXP K8392, EXP K8502, EXP K8484, K5805, K8910, K7429
4, 7

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow Yellow, Odo-Less

Description of water (color, odor, etc)

Approximate depth to bottom 3ft

			METER READINGS					
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
930			26.12	14.2	8.01			22.1

Comments

Sampler Signature Richard A. Duval

Effective Date May 3 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 6/29/22

Project No

Equipment/Meters

ID #S

Sampler(s) Stacy & Duval

Weather/Temp Sunny 80°

Sample Location I D Surface RR Left

Sample Type BASELINE

Sample No

Site Description

Notes S3357, B430, B842, G5111, E4107, F232, D0075, C0104, K8697, K8175, K0379, K6623, K678, K2682 19, 17 Exp Exp Exp

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow Yellow, no odor

Description of water (color, odor, etc)

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
10 15			25.41	7.96	8.13			19.0

Comments

Sampler Signature Richard A. Duval

Effective Date May 1, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 6/29/22

Project No

Equipment/Meters

ID #'S

Sampler(s): Duval & Stey

Weather/Temp Sunny 80°

Sample Location I D Surface RR Right

Sample Type Base Line

Sample No

Site Description

Notes B791, B1243, C0106, D7451, E3260, F325, G5107, S3323 EXP K8925, EXP K6993, EXP K8463, K6591, K8936, K6608 21, 23

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow Yellow, No odor

Description of water (color, odor, etc)

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
10 10			25.46	7.98	8.02			19.4

Comments

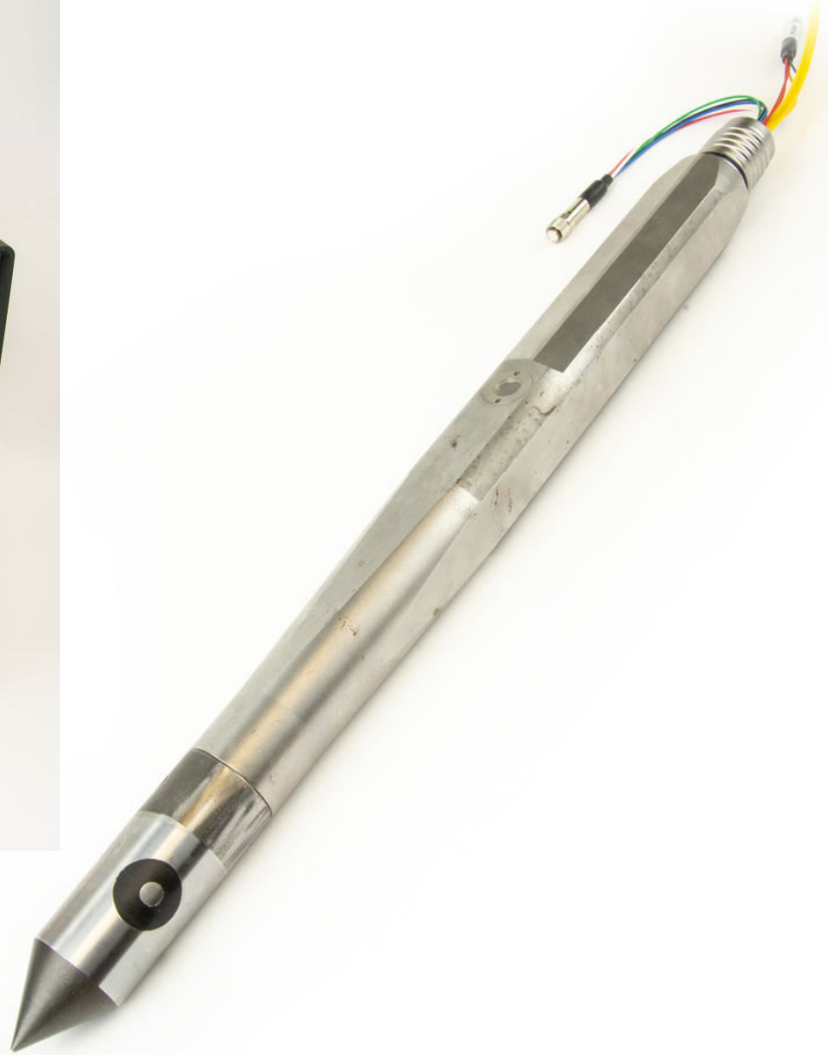
Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

APPENDIX D

OVERVIEW OF OPTICAL IMAGE PROFILER (OIP) DIRECT PUSH DRILL TOOLING, PRESENTED BY CASCADE DRILLING

OIP



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DRILLING | TECHNICAL SERVICES

HRSC System Setup

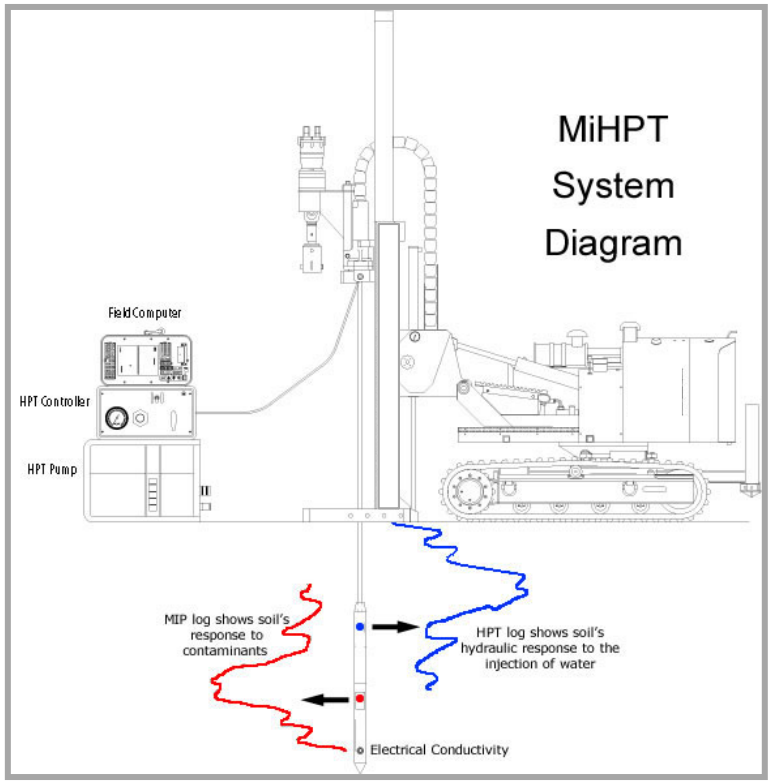
Setup is similar on all real time measurement systems…

Three components:

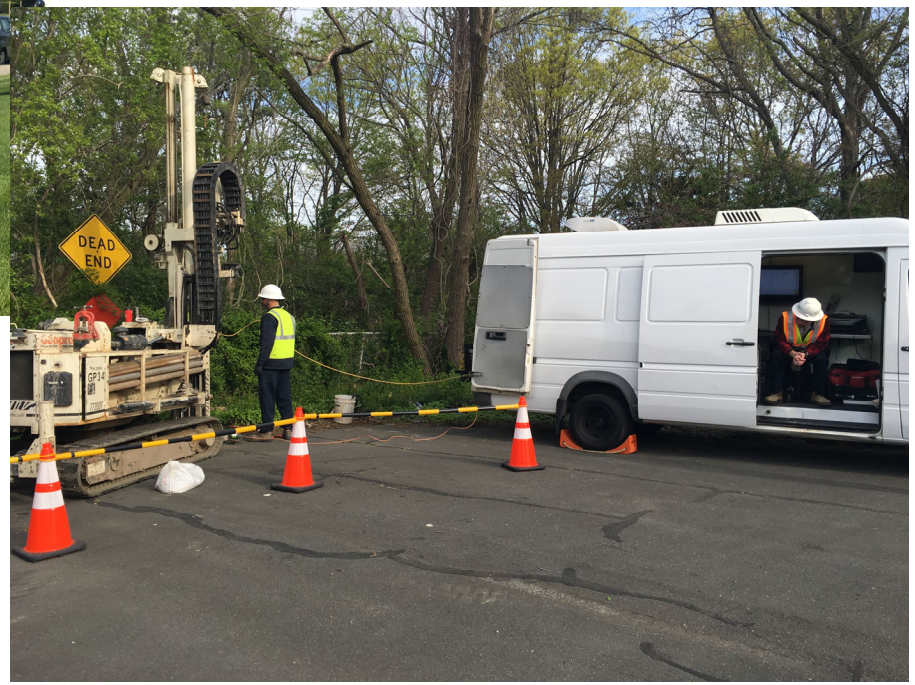
-DPT/Probe rig

-Tool String

-Data collection equipment



OIP



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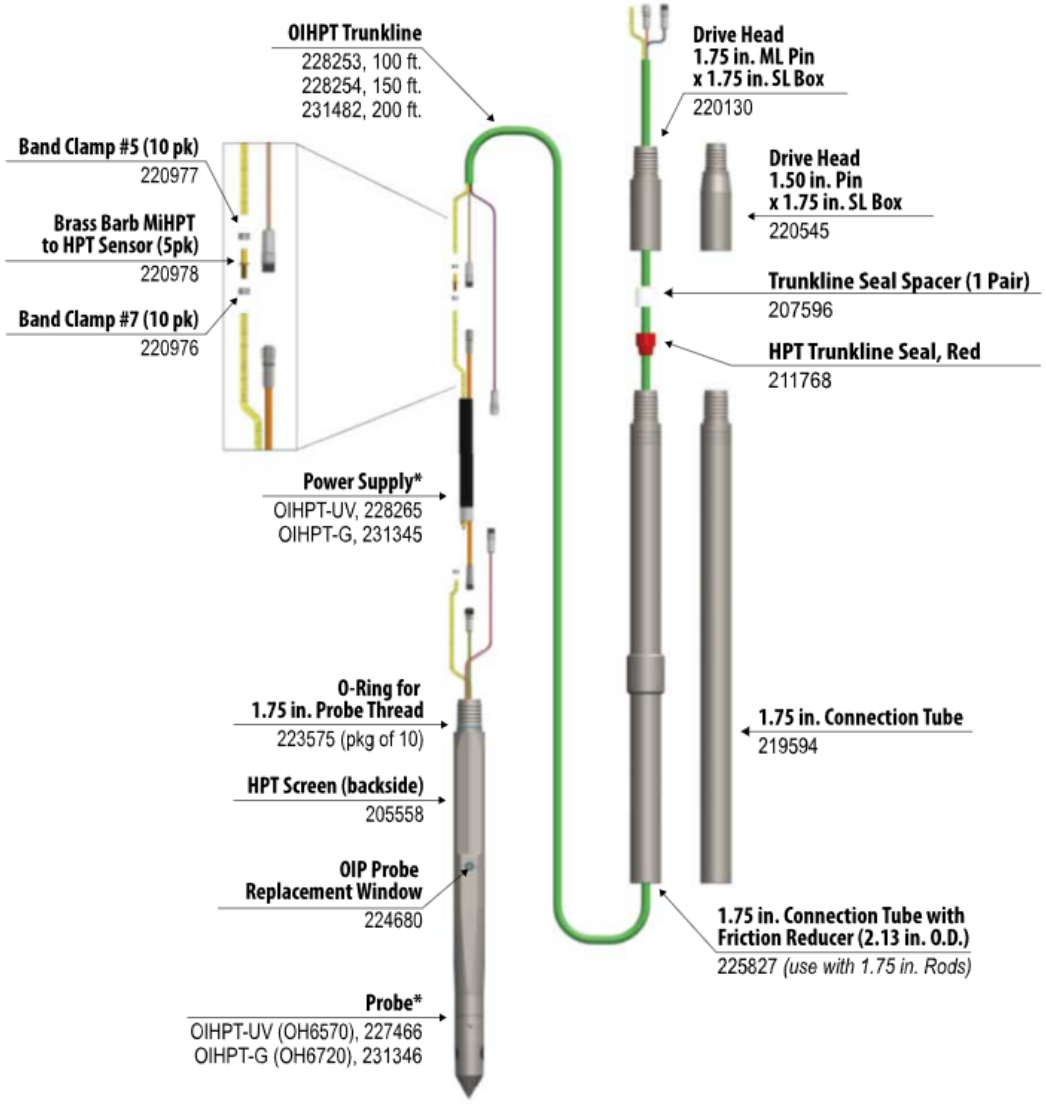
OIP Field Operation

Viewing the OIP logs as they are captured in the field allows the project manager to see what is going on in the subsurface and make decisions about placement of additional OIP logs or the locations and depths for confirmation sampling.

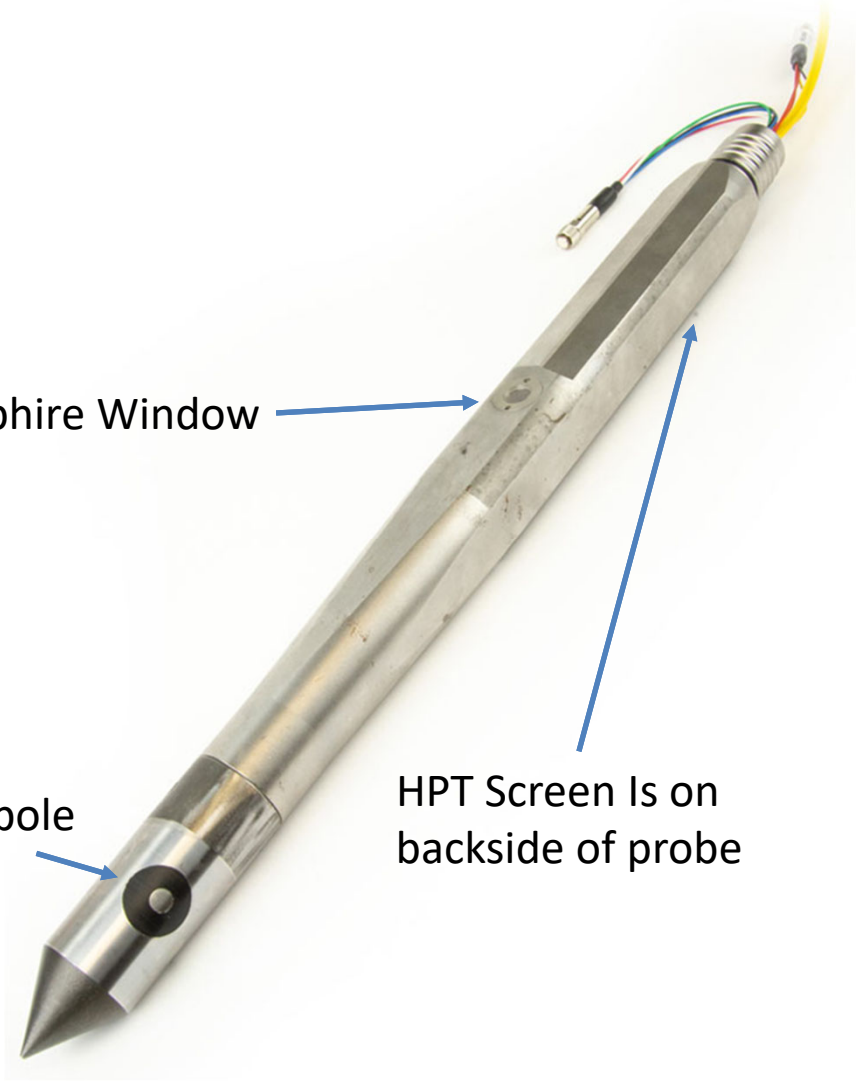
OIP Tooling


OIHPT Trunkline
228253, 100 ft.
228254, 150 ft.
231482, 200 ft.
Band Clamp #5 (10 pk)
220977
Brass Barb MiHPT
to HPT Sensor (5pk)
220978
Band Clamp #7 (10 pk)
220976
Power Supply*
OIHPT-UV, 228265
OIHPT-G, 231345
O-Ring for
1.75 in. Probe Thread
223575 (pkg of 10)
HPT Screen (backside)
205558
OIP Probe
Replacement Window
224680
Probe*
OIHPT-UV (OH6570), 227466
OIHPT-G (OH6720), 231346
Drive Head
1.75 in. ML Pin
x 1.75 in. SL Box
220130
Drive Head
1.50 in. Pin
x 1.75 in. SL Box
220545
Trunkline Seal Spacer (1 Pair)
207596
HPT Trunkline Seal, Red
211768
1.75 in. Connection Tube
219594
1.75 in. Connection Tube with
Friction Reducer (2.13 in. O.D.)
225827 (use with 1.75 in. Rods)

OIP Probe

- Square Probe Design
- Percussion Drivable

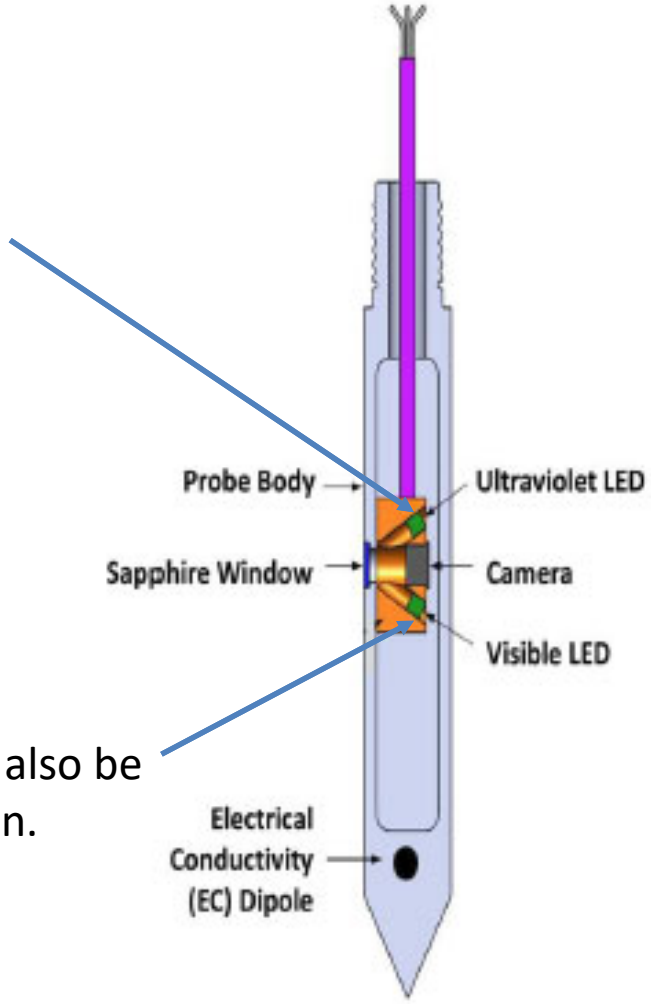
OIP Trunkline



OIP UV Probe

- Purpose: Detecting UV induced fluorescence of light non aqueous phase liquids (LNAPL) in soil. Primarily petroleum hydrocarbons.
- Method: UV light directed at the soil causes components of the LNAPL to fluoresce. An Image of the soil and any contained fluids is captured and analyzed for fluorescence.

Visible light images of the soil may also be obtained at the operators discretion.



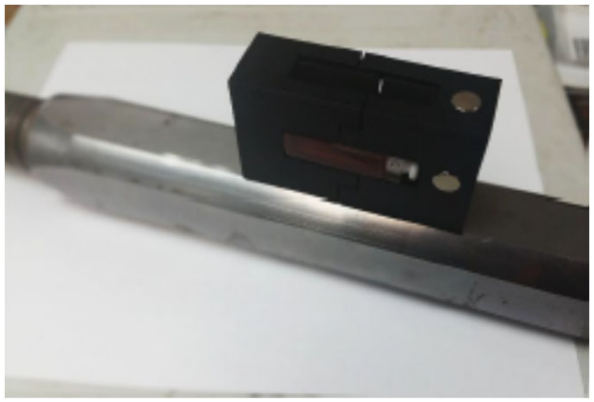
OIP Quality Assurance (QA) Testing

- QA Tests are performed before and after each log
- EC Dipole Test
- Optical Test

EC Test Load

OIP Cuvette Holder

Testing the Optical Components and System Response



OIP Optical QA Test

- Image Assessment
  - Visible Target
- Background Assessment
  - Black Box
- Fluorescence Assessment
  - Diesel
  - Motor Oil

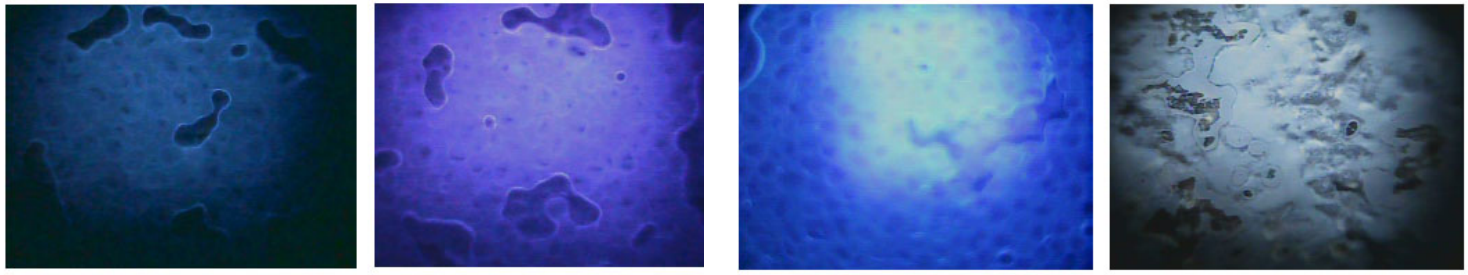
Visible Target

Black Box

Diesel Fuel Cuvette

Motor Oil Cuvette

OIP



Gasoline Hue: 140-180 P165 | Diesel Hue 115-170 P150 | Motor Oil Hue 160-200 P175 | Crude Oil Hue 105-170 P135

Comparison of laboratory fuel saturation on the sapphire window of the four main LNAPL fuel types

Note: Images from saturated sands in the laboratory may not be completely representative of the images retrieved from the subsurface.

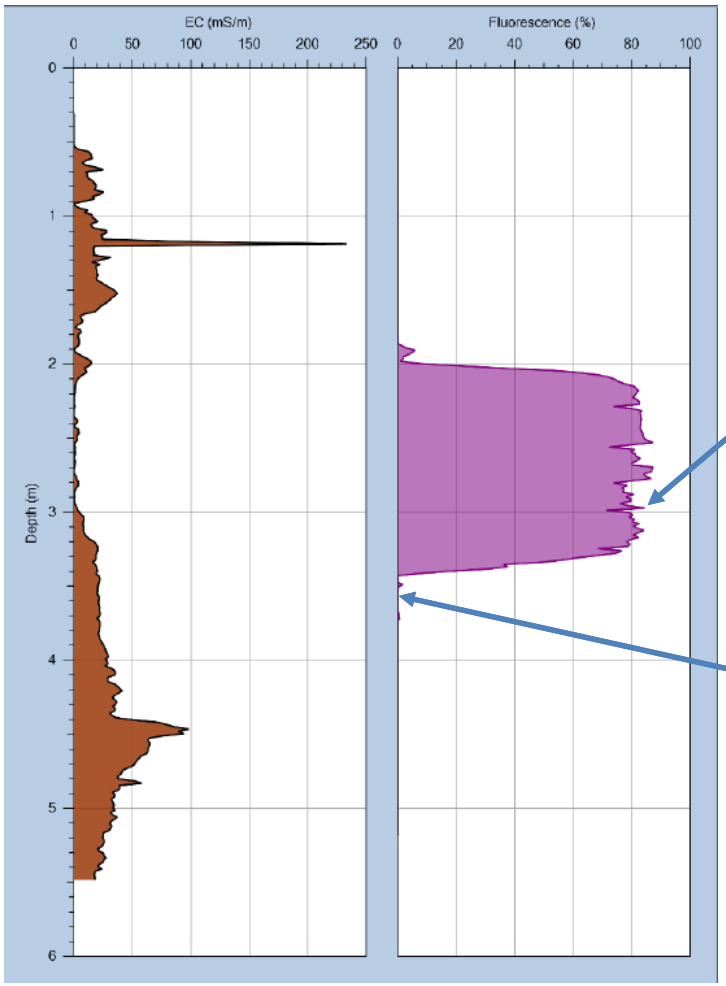
Here are some of the pure petroleum products and their fluorescent colors under the OIP UV LED. As you can see these are all in the "blue" range with slightly different hues.

Crude oil is a blue green fluorescence with low saturation.

If you visually distinguish differences in Hue (similar to above) you may wish to target sampling those different depth intervals/locations to determine if different products are present.

At this point in the OIP system/software development an indication of fuel type based on the observed fluorescence is not provided.

OIP Data Examples: Gasoline Fluorescence



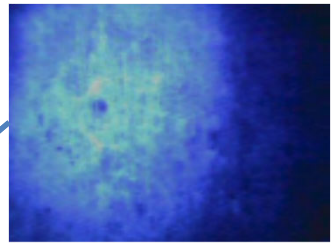
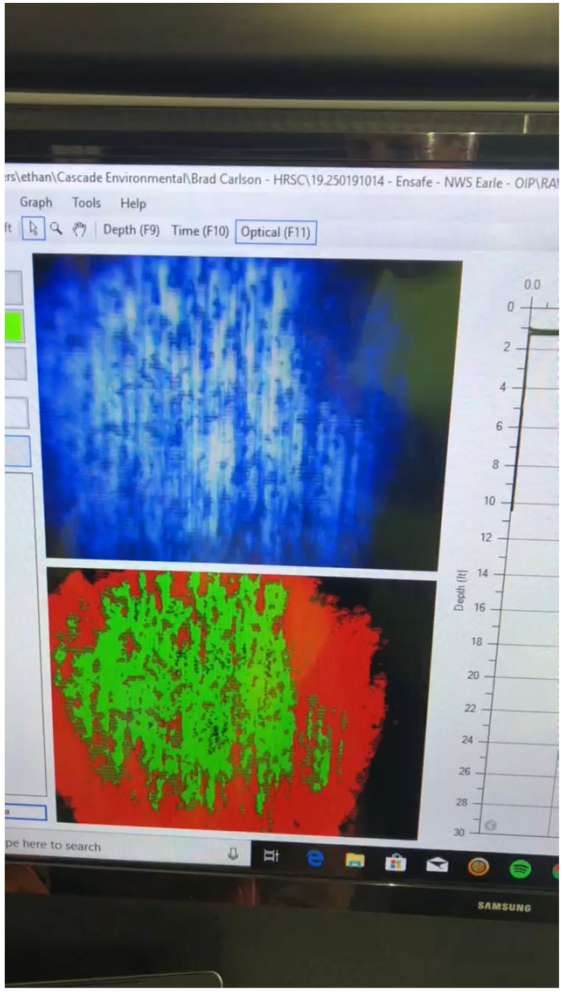


Image at 3.0m

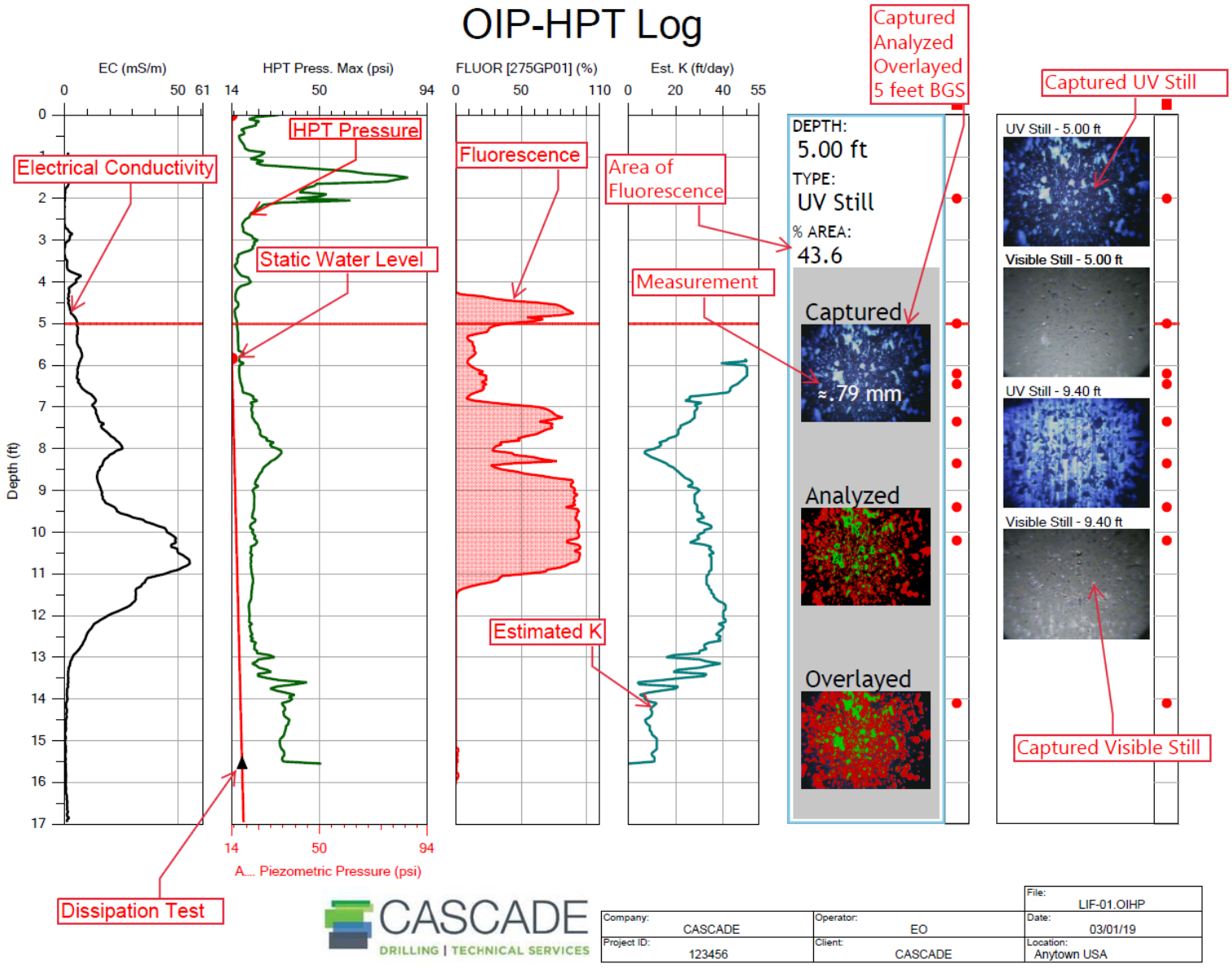
Image at 3.5m

Good fluorescence is observed at 3.0m. The image at 3.5m is essentially non-detect showing clear definition of the bottom of the LNAPL body.

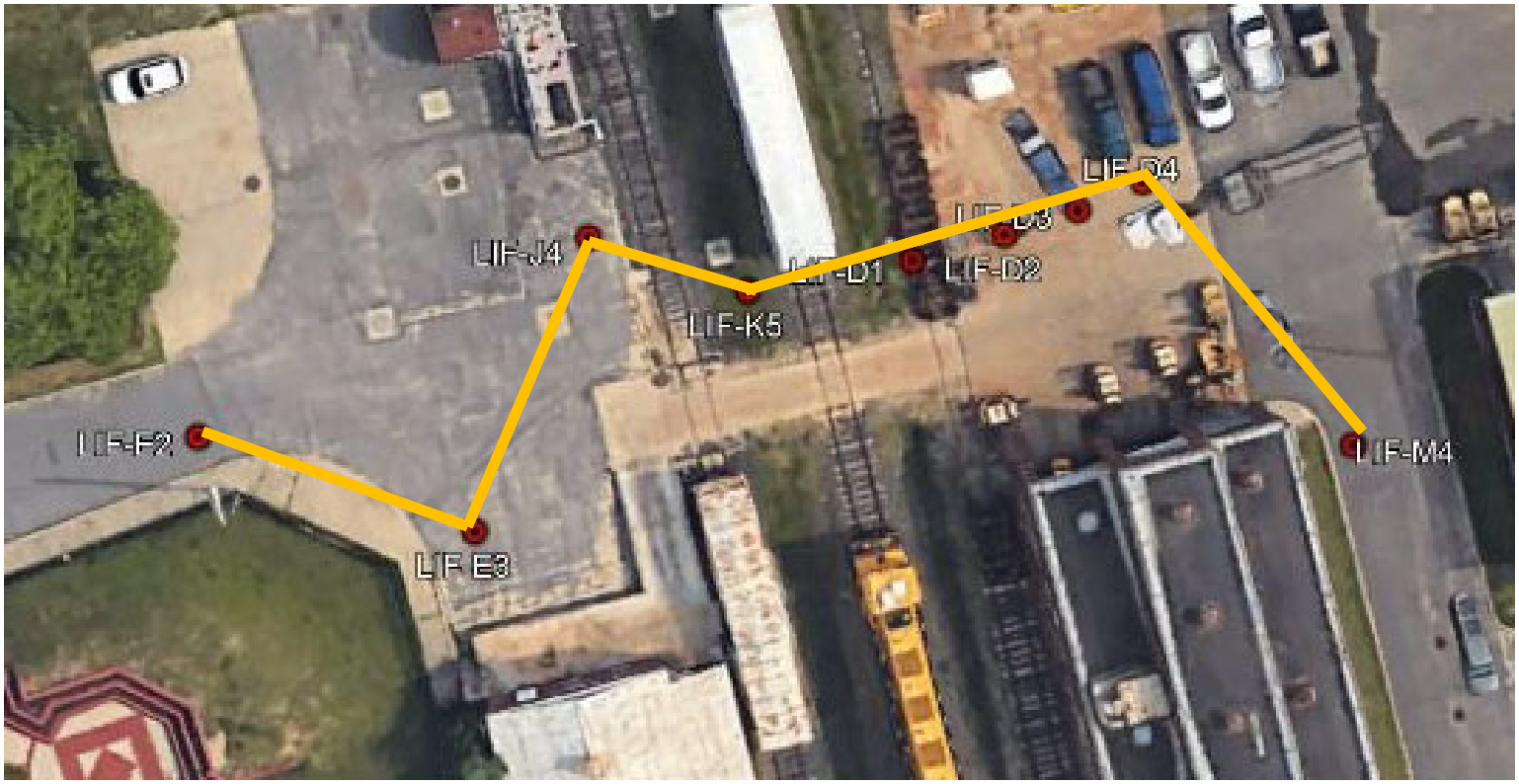
OIP


Graph
Tools
Help
Depth (F9)
Time (F10)
Optical (F11)
Depth (ft)
SAMSUNG

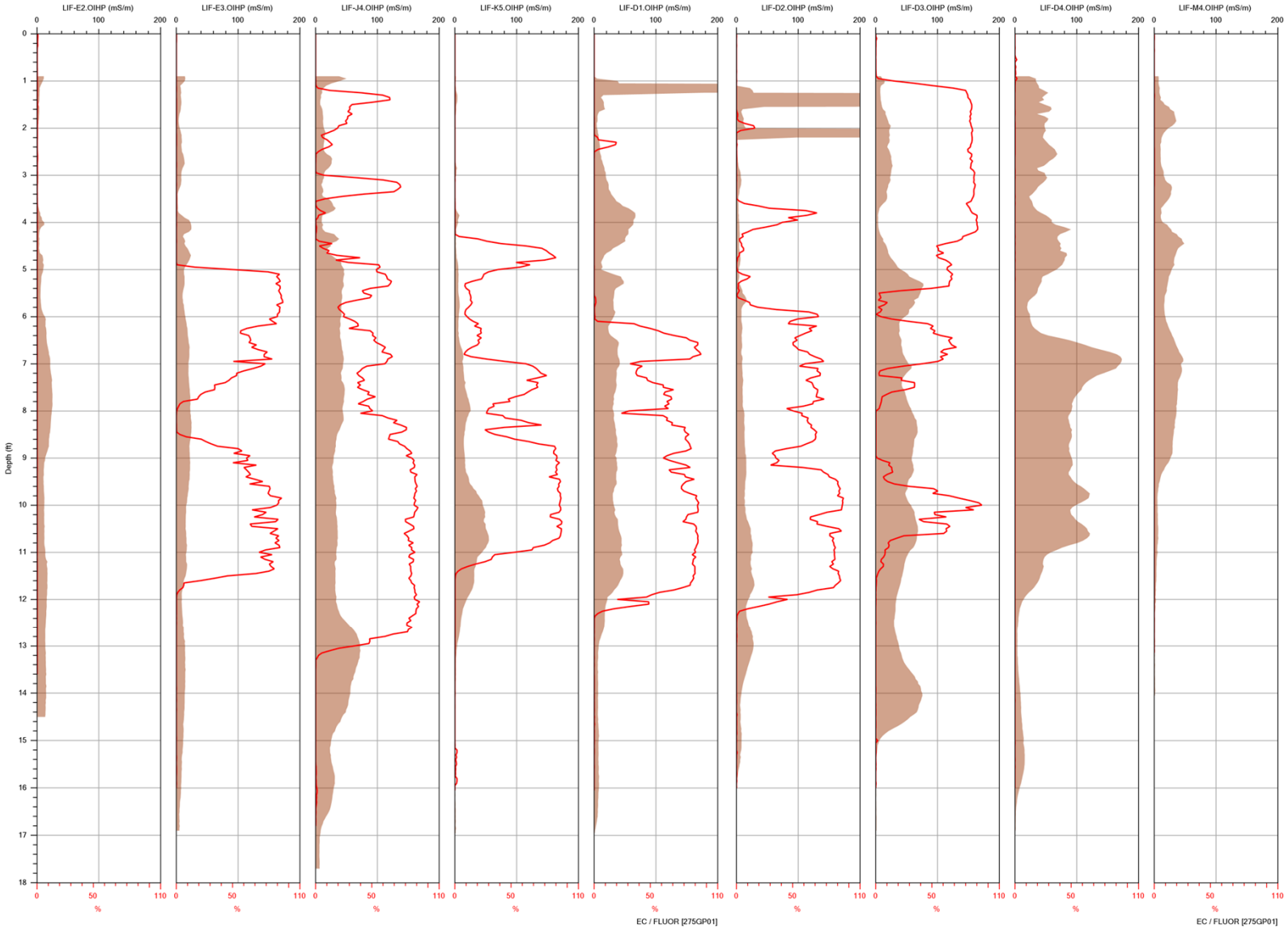
OIP-HPT


OIP-HPT Log
EC (mS/m)
HPT Press. Max (psi)
FLUOR [275GP01] (%)
Est. K (ft/day)
Depth (ft)
A.... Piezometric Pressure (psi)
Electrical Conductivity
HPT Pressure
Static Water Level
Fluorescence
Area of Fluorescence
Measurement
Estimated K
Dissipation Test
Captured Analyzed Overlayed 5 feet BGS
Captured UV Still
DEPTH:
5.00 ft
TYPE:
UV Still
% AREA:
43.6
Captured
≈.79 mm
Analyzed
Overlayed
UV Still - 5.00 ft
Visible Still - 5.00 ft
UV Still - 9.40 ft
Visible Still - 9.40 ft
Captured Visible Still
CASCADE
DRILLING | TECHNICAL SERVICES
Company: CASCADE
Operator: EO
File: LIF-01.OIHP
Project ID: 123456
Client: CASCADE
Date: 03/01/19
Location: Anytown USA

OIP



EC vs Fluor



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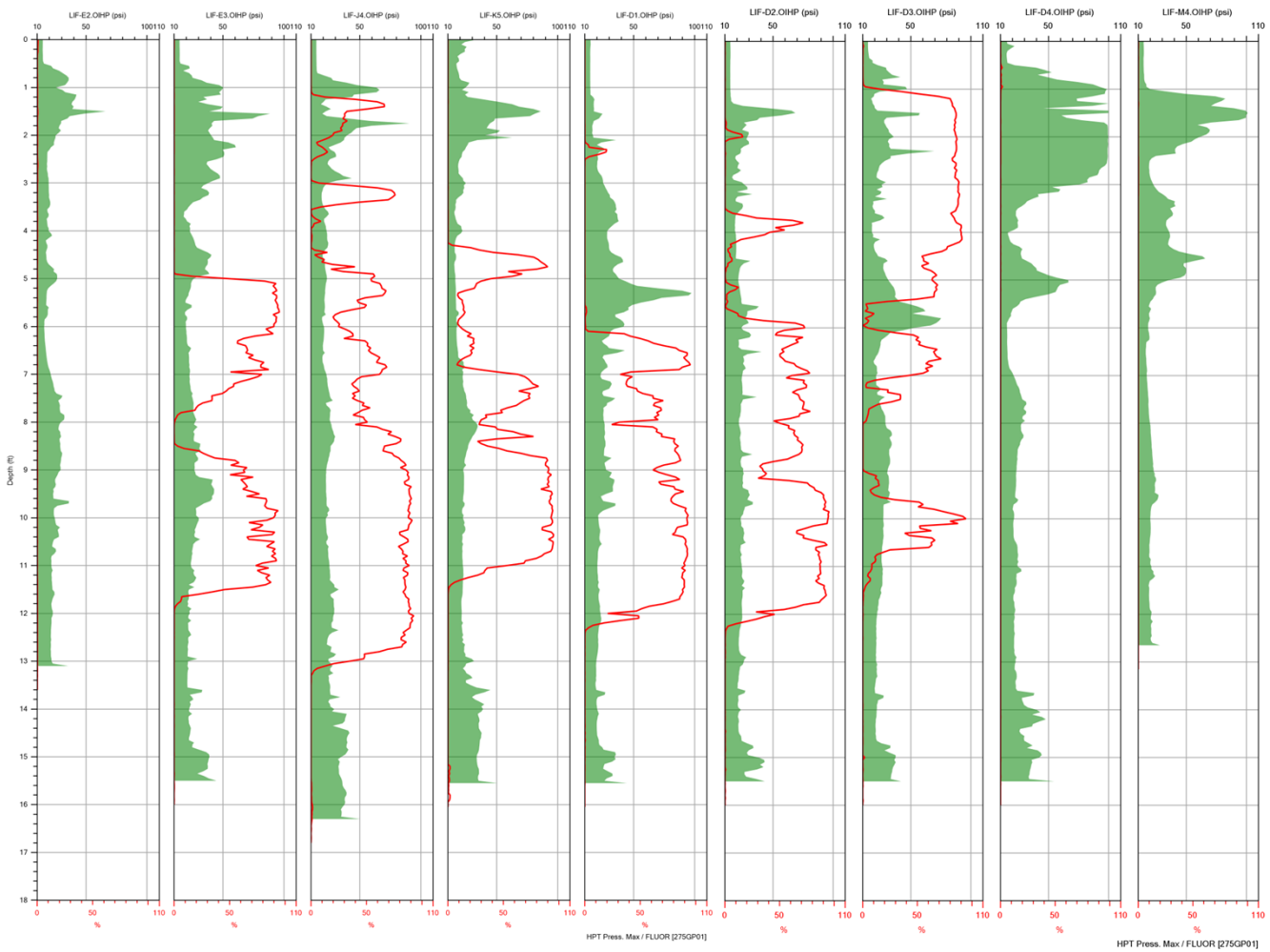
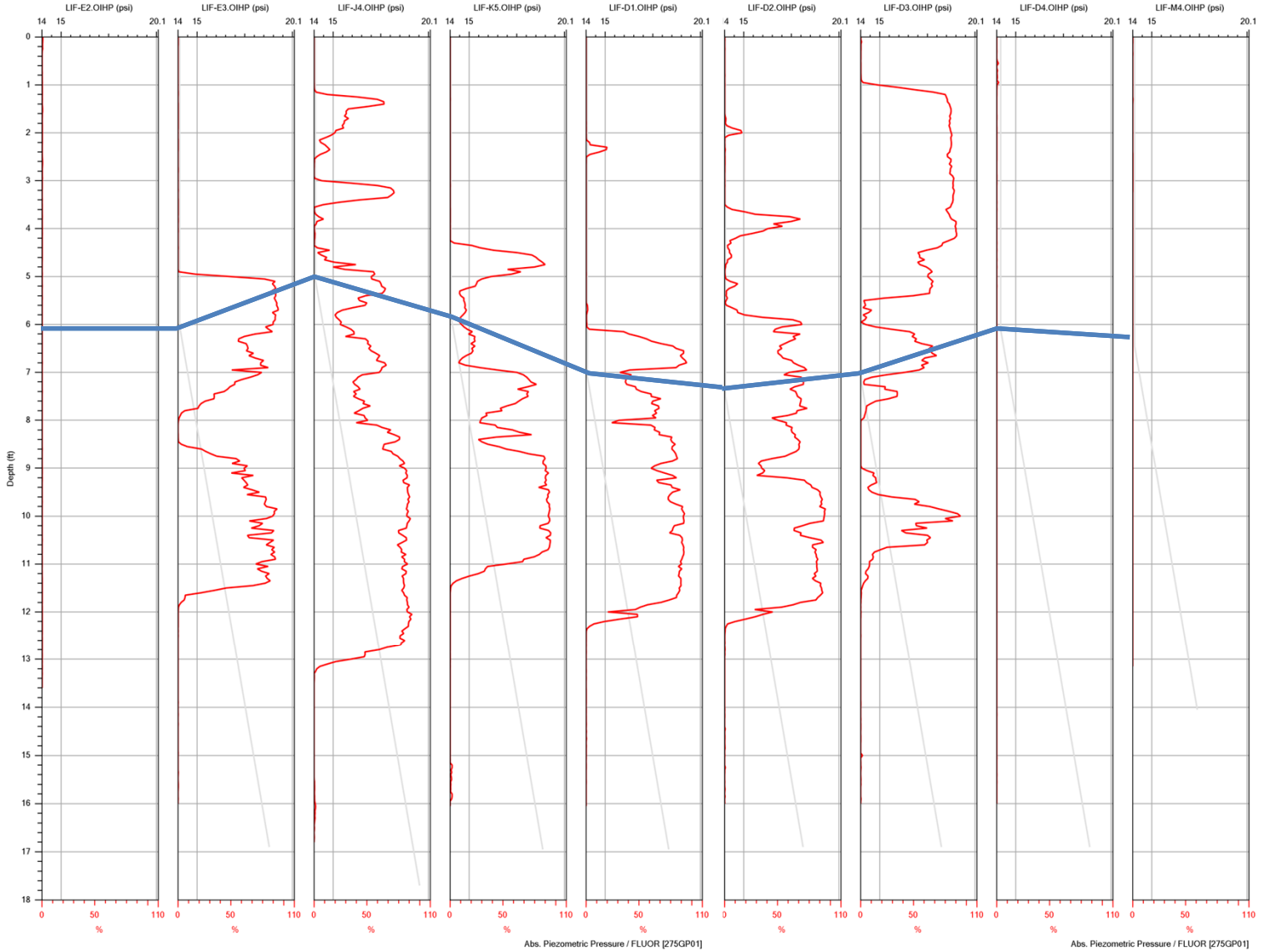
HPT Pressure vs Fluor



Static Water Level vs Fluor



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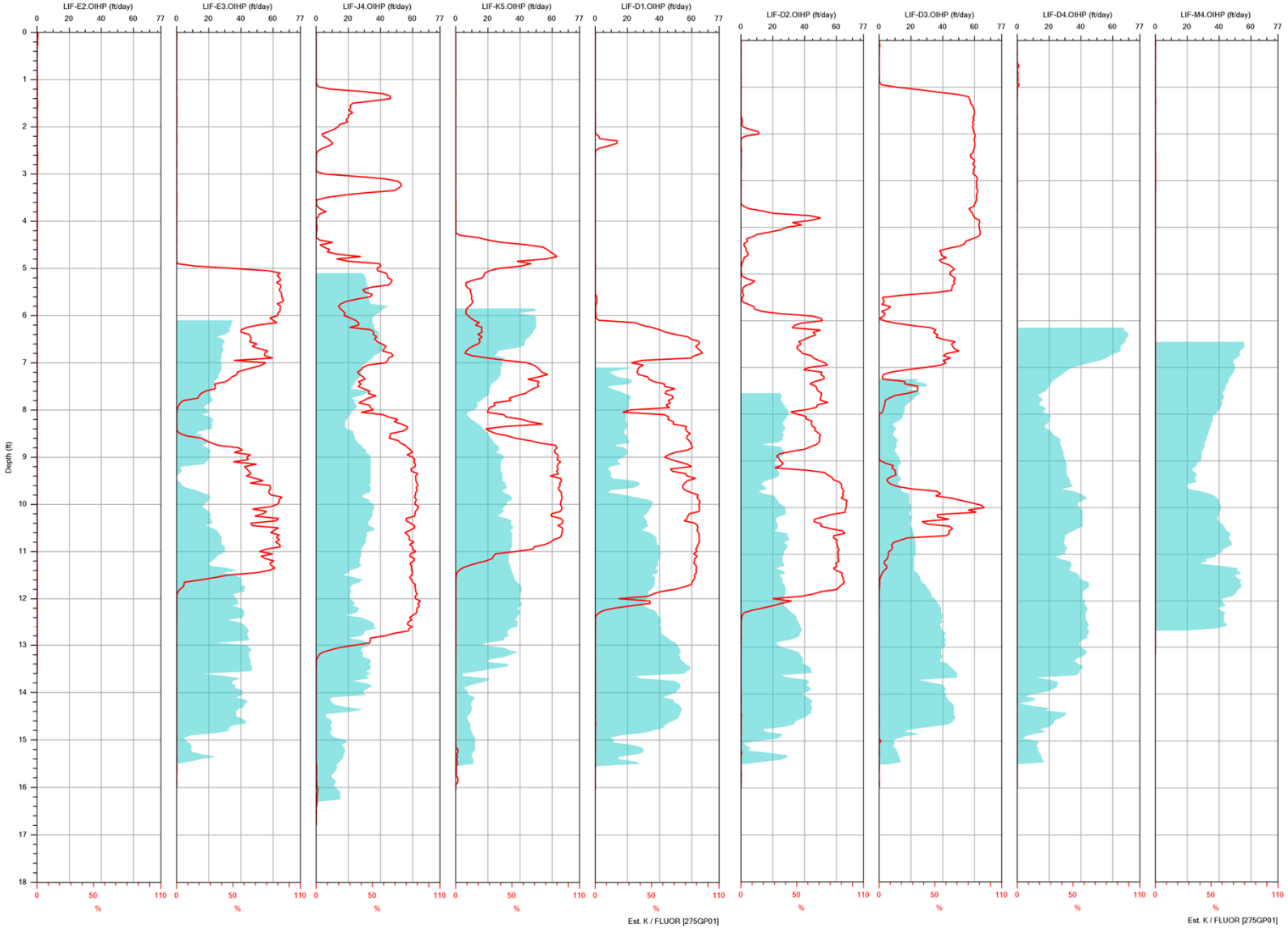
Est K vs Fluor



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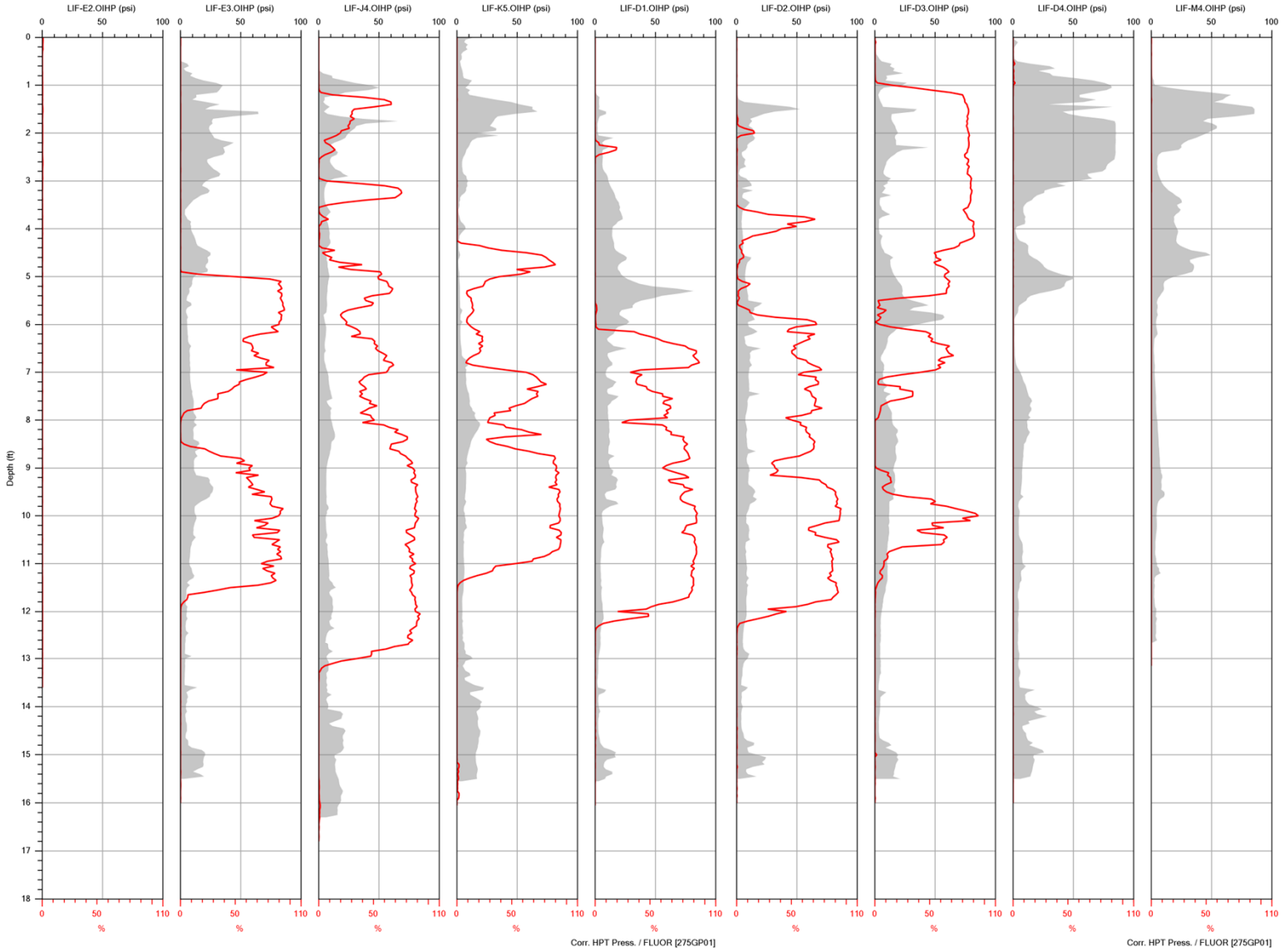
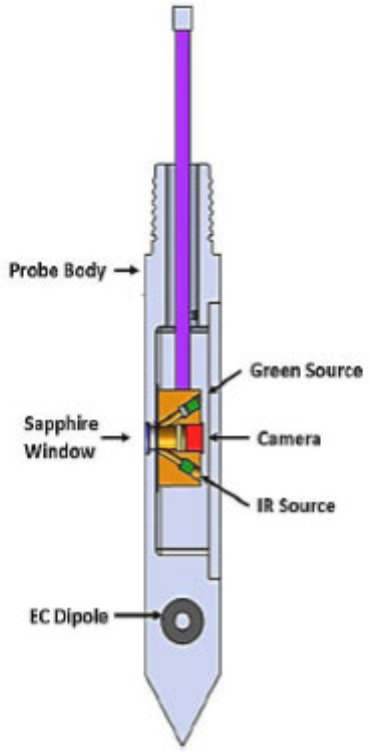
Corrected HPT Pressure vs Fluor



OIP-G

The probe contains a: Green LED light source Visible light LED light source CMOS Camera our detector Sapphire Window – interface to the soil

UV images are analyzed for fluorescence at a rate of 30 frames per second (FPS) as the probe is advanced.



OIP-G

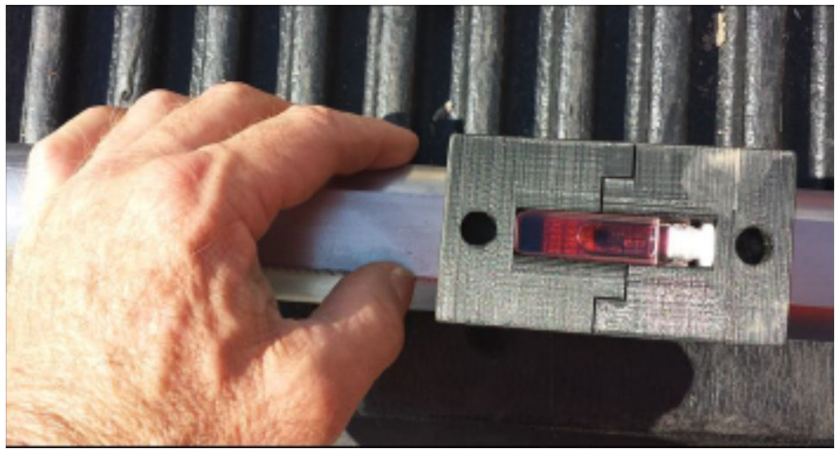
What is Detected? Polynuclear Aromatic Hydrocarbons

Benzo(a)Pyrene is a polynuclear aromatic hydrocarbon (PAH) that is present in coal tar. It is a carcinogen. Coal tars contain many other PAHs including naphthalene, anthracene and pyrene. In all 14 PAHs are on the standard EPA analytical list. Many PAHs fluoresce under the green 520nm wavelength light.

Creosote is a wood preservative consisting of 75% to 90% PAHs along with some phenolic compounds and small amounts of other organic chemicals. The OIP-G system may be used to detect nonaqueous phase creosote.

OIP-G

System Quality Assurance Testing

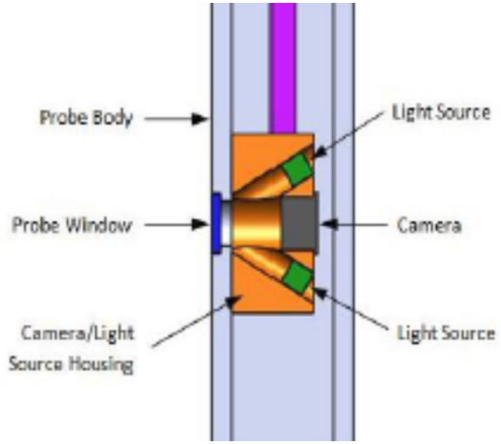


Cuvettes of know standards, typically diesel fuel and 30wt motor oil, are run before and after each log to verify performance of the optical system.
Cuvettes of site specific products may be tested.
A “black box” test is run to verify the optical cavity and window are clean and free of potential contaminants.
A visual standard is run to verify accurate color and camera focus.

A test jig with two know conductance values is used to test and verify performance of the EC dipole and hardware before and after each log.

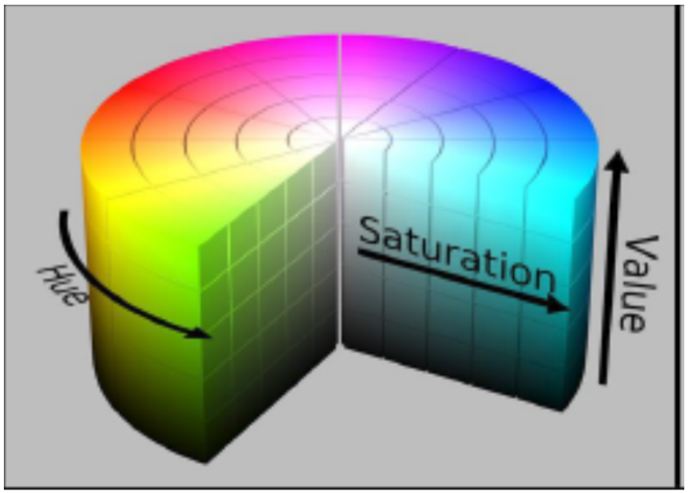
OIP-G

Basics of Fluorescence Detection & Image Analysis



The OIP software uses a 2-stage digital filter (patent pending) to analyze the fluorescent light and determine if it falls in the correct color (hue) range above a specified brightness (value) level to be defined as fluorescence for the product under investigation. Coal tars and creosote typically fluoresce in the red-orange wavelength range.

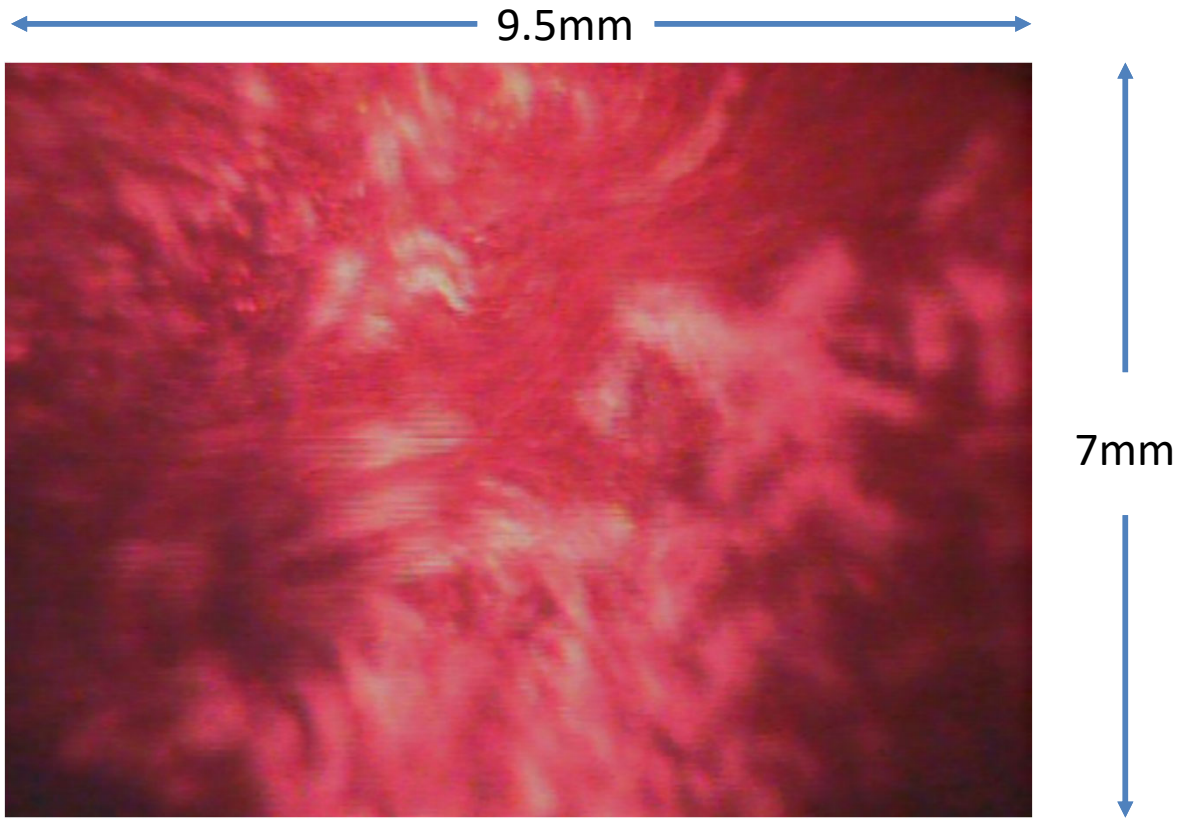
The green laser diode illuminates the formation outside the sapphire window. The CMOS camera captures images of induced fluorescence in the visible light range. The camera is the detector. One image is saved to file for every 0.05ft (~ 15mm) of log depth.



OIP-G

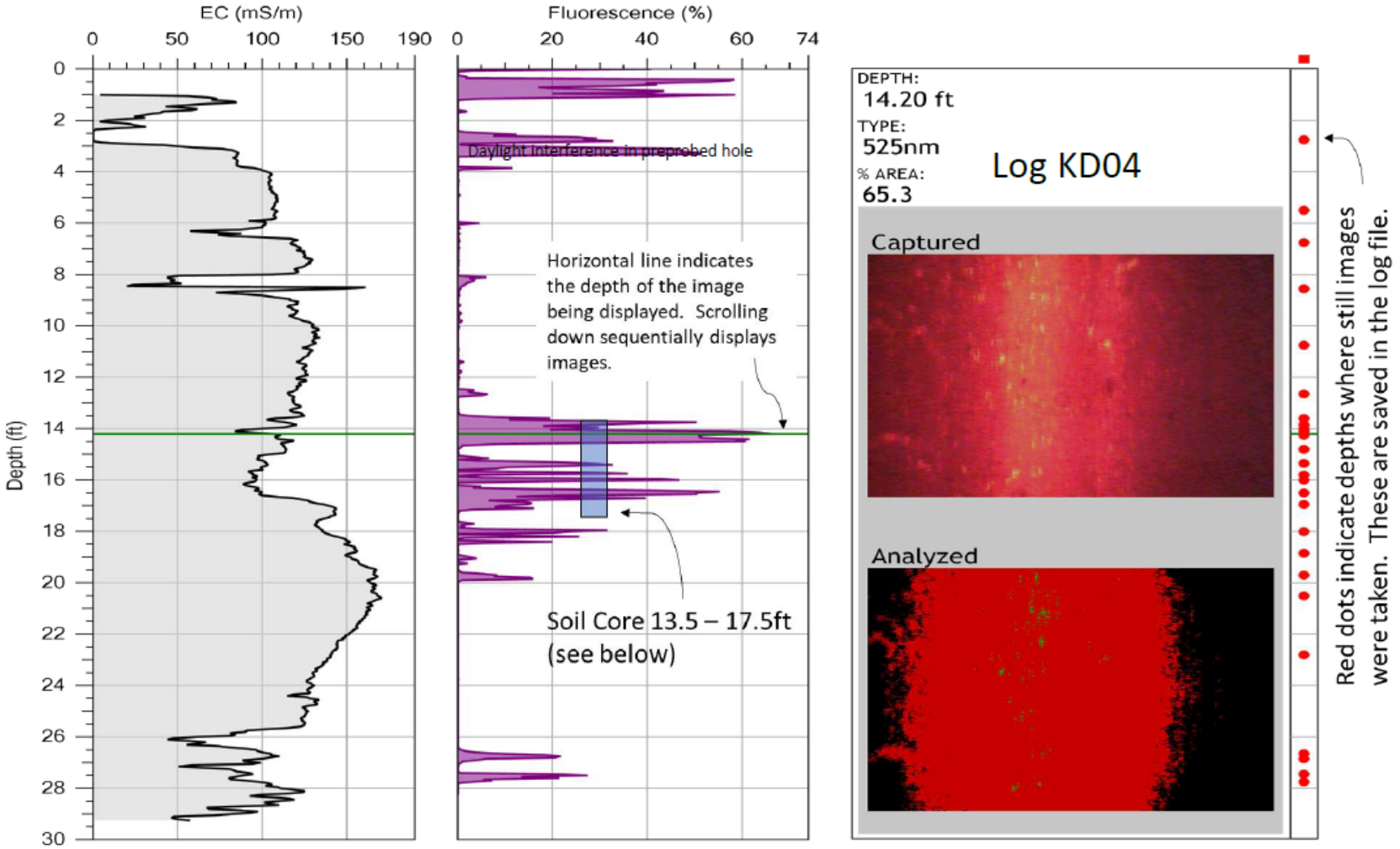
Image Specifications

Image Resolution is approx. 0.3 megapixels (640 X 480 pixels)



OIP-G image of coal tar fluorescence under the 520nm green laser diode at Wellington, KS. Location 23, 9.65 ft depth. 76.8% Area of fluorescence. Soil = 2724 mg/kg total PAH.

OIP-G Log Interpretation



Soil cores confirmed that higher EC correlated with silty clays at this site while lower EC (8-9ft, 15-17ft and 25-28ft) indicated the presence of sand and/or gravel, often in a fine grained matrix.

Elevated fluorescence readings indicate the presence of coal tar products. Daylight "interference" occurred near surface in pre-probed holes.

The image of fluorescence (upper) is the insitu image captured during logging. The analyzed image (lower) shows the area of image exhibiting fluorescence based on the software digital filter parameters

EX

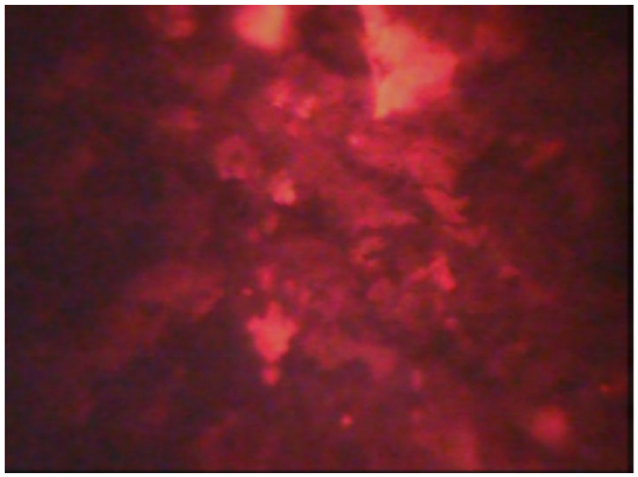
OIP-G

False Positive Interferences

Interferences --

Some natural minerals (e.g. calcite) and natural organics as well as man-made materials (e.g. paper) fluoresce. At the site in Wellington we discovered that caliche nodules and limestone clasts in the formation as well as limestone gravel fill exhibited fluorescence in the same wavelength range as the coal tars under the green laser diode. Targeted sampling with the DT22 coring system quickly confirmed if the observed fluorescence was due to the presence of calcite bearing minerals or coal tar contamination.

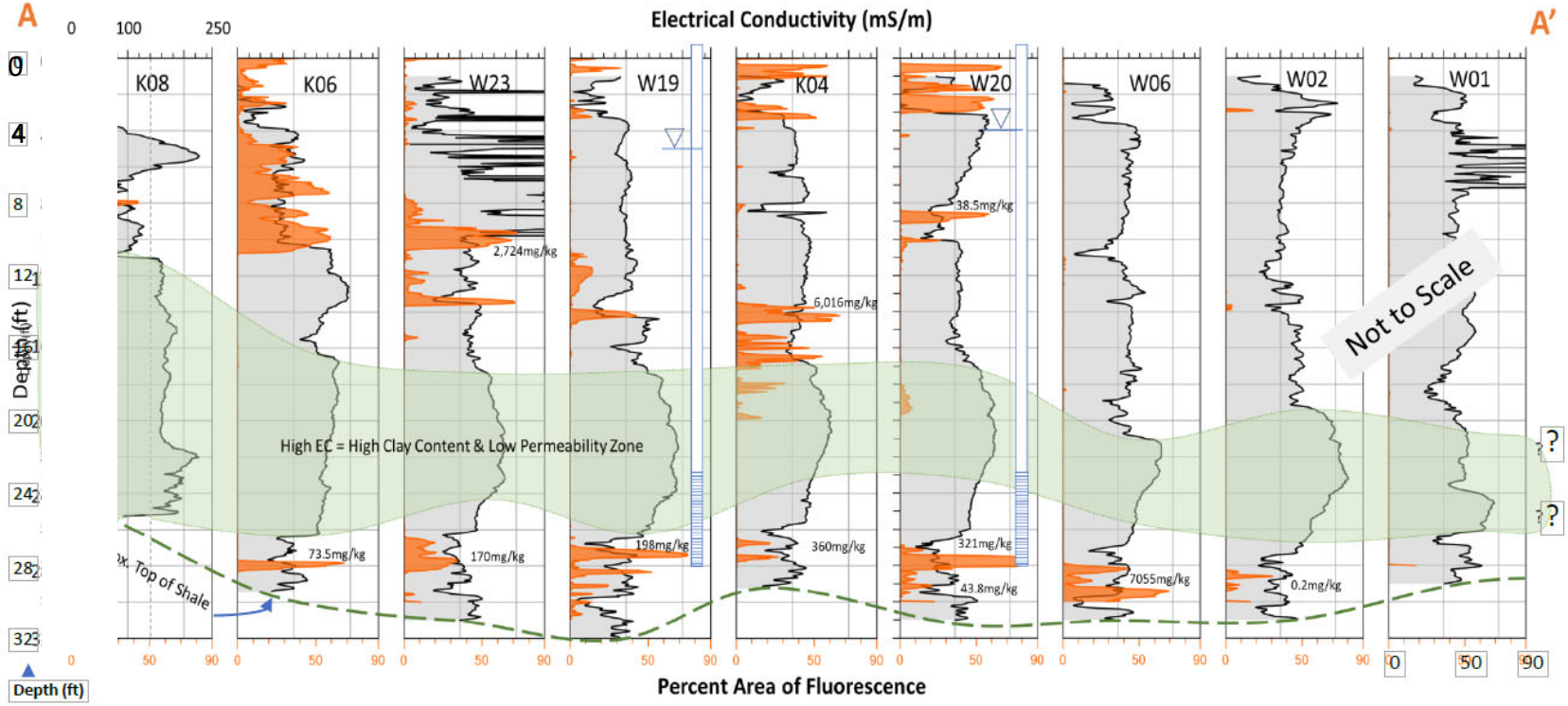
DT22 soil core from location exhibiting false positive response due to limestone clasts and caliche nodules.



Fluorescence observed from the sample placed on the OIP window, up to 40% area of fluorescence was observed.

OIP-G

Cross Section A-A' Based on EC and Fluorescence Logs



Cross section A-A' is labeled on the site map above and shown here with EC shaded in gray and the % Area of Fluorence (%AF) shaded in orange. The logs are spaced evenly in the simplified cross section here but not so on the ground (not to scale). Logs plotted at depth, not elevation corrected. Analytical results for Total PAHs from several soil samples are plotted adjacent to the depth/location where collected. Light green shading has been applied to outline a zone of elevated EC (≥ 140mS/m) in the local formation. Several samples across the site from this zone showed it consisted of a firm, dark green-gray silt-clay with low permeability. This low permeability zone was observed in all logs obtained at the site, with some variation in thickness and vertical extent. With few exceptions the coal tar contamination was found to be present either above or below this low permeability zone. No obvious pathway across the low permeability zone was observed in any of the OIP-G logs.

OIP-G

Summary and Conclusions

The OIP-G/IR probe is advanced with percussion probing methods (DP) into soils & unconsolidated formations

The Green (525nm) laser diode induces fluorescence of coal tars and creosote

False positive due to calcareous minerals may occur at some sites

Targeted soil coring guided by logs can quickly confirm presence or absence of coal tar contamination

Images of fluorescence provide powerful visual data for confirmation

OIP-G

Summary and Conclusions

IR images help define soil-formation texture

EC logs assist with lithologic identification with a minimum of sampling at many sites

Cross sections of EC and %AF help define contaminant migration pathways and barriers

Site characterization with OIP-G/IR is quick and effective compared to traditional sampling or excavation methods

LNAPL EVALUATION and REMEDIATION
OPERATIONAL UNIT II – L1 NAPL AREA
HARMON RAILROAD YARD
WESTCHESTER COUNTY, NEW YORK
NYSDEC SITE NO. 3-60-010

This document describes the evaluation of the nature and extent of light non-aqueous phase liquid (LNAPL) identified in the L1 NAPL area of Operational Unit II (OU-II); remedial efforts taken to address identified impact and preclude future off-site migration; and conclusions pertaining to the current potential for off-site migration of LNAPL. The location and extent of L1 NAPL area (and the L2 NAPL area, L3 NAPL area, and L4 NAPL area; and existing monitoring wells (including former components of the former air injection/vapor extraction system) are depicted on Figure 1.

Background

LNAPL was identified in the L1 NAPL area during studies completed around March 1985 (i.e., refenced in Section 2.1 of the document titled, *Remedial Investigation Report, Harmon Lagoon Croton-on Hudson, New York*, dated November 27, 1989 prepared by Fred C. Hart Associates, Inc.). The extent of LNAPL in the L1 NAPL area was further delineated between January 1995 and June 1996. The methods utilized to delineate the extent LNAPL in the L1 NAPL area are described in Section 2 of the *Remedial Investigation/Feasibility Study Report, Volume 1- Remedial Investigation, Harmon Railroad Wastewater Treatment Area, Operable Unit-II, NYSDEC Site No.: 3-60-010* dated January 24, 1997 prepared by ERM-Northeast. In Section 3.1.2.1 of this document, ERM-Northeast defines the L1 NAPL area as, "(the) *area defined by well WB-9 and associated temporary monitoring wells located to the northwest of the former lagoon. The extent of NAPL in this area is defined by temporary and permanent monitoring wells on the east side of the Westchester County access road* (currently designated Half Moon Bay Drive) l*eading to the former New York Central Railroad Company property and the Half Moon Bay Development. There are also four off-site wells (MW-C, MW-B, OS-N and OS-0) on the west side of this access road which assisted in describing the extent of NAPL in this area."* The off-site wells described above are located on the Half Moon Bay property.

The Half Moon Bay property (i.e., an approximate 14 acre property, currently subdivided into 158 condominium units identified by the Town of Cortland with SBL IDs: 78.16-1-7.xx; 78.20-1-1.xx; and 78.20-1-2.xx) is located immediately north and west of L1 NAPL area and in proximity of the Hudson River. Historically this property contained a roundhouse/turntable that was operated by the New York Central Railroad. Historic aerial photographs maintained by Westchester County GIS indicate that use of the roundhouse and turntable may have been discontinued as early as 1947 (i.e., the area of the roundhouse and turntable appear to be covered by vegetation in the 1947 photograph), but remnants of the structure remained on the Half Moon Bay Property until at least 1976 (refer to Attachment A). Based on information included on the Town of Cortland Property Record Cards, the Half Moon Bay Property was purchased by Croton River Club, Inc., HMB Acquisition Corp., and Hudson Property Partners, LLC in 1986, 1991, and 1997 (respectively), and that building permits for the construction of the townhouses were issued between around 2001 and 2002.

Between July 31 and August 3, 2001, sampling was completed on the Harmon Yard L1 NAPL area and the Half Moon Bay property to collect samples for subsequent forensic testing. The sampling included the collection of LNAPL samples from four monitoring wells on L1 NAPL area (OW-11, OW-12, VE1-7 and AI1-6), and one monitoring well (MW-A) and seven test pits (TP-1, TP-A1, TP-7, TP-8, TPA-17, TP-17, and TP-24) installed/advanced on Half Moon Bay Property. The samples collected were sent to Zymax Forensics of San Luis Obispo, California for analysis using the laboratory's Full Scan Gas Chromatography/Mass Spectrometry (GC/MS) Analysis. This analysis identifies and quantifies the distribution of alkanes, alkylbenzenes, polycyclic aromatic hydrocarbons (PAHs) and polycyclic biomarkers present in a sample. These data can be used to determine the type of petroleum product present in the sample, the weathering (age) of the petroleum and whether the petroleum products are related. The GC/MS scan identifies non-petroleum compounds. The samples were also tested for polychlorinated biphenyls (PCB).

The results of the forensic analyses indicated that the LNAPL/contaminated soil samples could be divided into three major groups.

1. LNAPL/soil samples OW-11, OW-12, VE1-7, VE1-1, AI1-6, MW-A, TP-7 and TPA17-2 were determined to be weathered diesels greater than 20-years old that were from a similar crude oil source. The PCB concentrations, reported as Aroclor 1260, in these samples include ranged between 0.3 mg/kg and 16 mg/kg.

2. The sample TP-1 was also identified as a weathered diesel, greater than 20-years old that appeared to be even more weathered than the diesel in Group 1. PCBs were not detected in this sample.

3. The soil extracts from TPA17-1 and TPB-24 contained light and middle distillates, and light, middle and heavy distillates, respectively. PCB concentrations were non-detected and 0.08 mg/kg, respectively.

Remedial Actions

To prevent potential LNAPL migration from L1 NAPL area onto the Half Moon Bay property (and ultimately the Hudson River), installation of a sheeting wall along the western boundary of L1 NAPL area was proposed as a component of the Selected Remedial Alternative (Alternative V) downgradient side of this area (i.e., including the Half Moon Bay property and ultimately the Hudson River) in the *Remedial Investigation/Feasibility Report, Volume II Feasibility Study (Revised), Harmon Railroad Wastewater Treatment Area, Operable Unit-II, NYSDEC Site No.: 3-60-010* dated January 14, 1998 prepared by ERM-Northeast. The fourth paragraph of Section 7.6.1.5 states "*L1 NAPL area is the only area where the potential for off-site migration of OU-II NAPL exists. To prevent potential future migration of the OU-II NAPL located in this area, this alternative includes the installation of sheeting on the downgradient side of OU-II NAPL Area LI to a depth of approximately 16 feet below grade along the western fence line bordering NAPL Area LI. The location of this sheeting is shown on Figure 7-9. This depth is approximately two feet below the lowest elevation that NAPL has been observed in this section of OU-II L1 NAPL area*."

Design details for the sheeting wall are presented on Drawing C-7, and are further discussed in Section 2.1.14 of the document *Final 95% Submittal Engineer's Report Operable Unit II Remedial*

Design, dated February 17, 2000 (Revised July 31, 2000) prepared by ERM (*OU II Engineers Report)*. As indicated in these documents, the sheeting wall extends from approximately 18 inches below ground surface (bgs) to at least three feet into the seasonally low water table. The sheeting wall is approximately 200 feet long ranging in depth from about 16 feet to 18 feet bgs. The northern portion of the wall was installed to a depth of about 16 feet bgs and the southern portion of the sheeting wall was installed to a depth of about 18 feet bgs. The sheeting wall consists of galvanized or coated steel pieces that are corrugated and "locked" into each other. A watertight sealant was injected between each sheeting plate.

Based on the LNAPL identified on the Half Moon Bay property, and the findings of the forensic testing (i.e., that some of the LNAPL impact on the Half Moon Bay property could be attributed to OU-II, particularly in the southern portion of the Half Moon Bay property adjacent to L1 NAPL area), Metro North Railroad agreed to pay for the removal of some LNAPL and LNAPL-impacted soil from the Half Moon Bay property A work plan describing the soil removal titled *Remedial Action Plan for Petroleum Contamination in Soil and Groundwater to be Conducted at the Southerly Section of the Undeveloped Portion of Half Moon Bay, Croton on Hudson, New York* dated October 26, 2001 (revised March 7, 2002) was prepared by Galli Engineering (a consultant retained by the developers of the Half Moon Bay property). A copy of this plan, obtained from the NYSDEC's DECinfo Locator website, is included as Attachment B.

Because LNAPL-impacted material had to be removed from areas on the Half Moon Bay property located adjacent to L1 NAPL area, installation of the sheet pile wall (i.e., proposed in the 1998 Remedial Investigation/Feasibility Report) was delayed until it could be completed in conjunction with the soil removal from the Half Moon Bay property completed in 2002. The Galli Engineering work plan states, "(Hudson Property Partners, LLC) *will begin the planned remediation by removing the first cell of contaminated product (as hereafter described) from the* (Half Moon Bay property) *for off-site disposal and then backfilling the first cell. Metro-North will then install a sheeting wall near the property line separating the* (Half Moon Bay property) *from Harmon Yard, as previously approved by the NYSDEC. Following the installation of the sheeting wall Hudson will continue to remove the contaminated product from the Site for offsite treatment and disposal."* The location of the sheeting wall is shown on Figure 1. The scope of the soil removal completed over an approximate 140 ft. by 100 ft. area of the Half Moon Bay property located adjacent to the NAPL L1 Area (as described in the Galli Engineering work plan) included:

- Excavaiton (in 25 ft. by 30 ft. cells) of clean overburden material to depths in proximity of the water table and stockpiling this material;
- Excavation and stockpiling of petroleum contaminated soil;
- Pumping and removing floating oil entering the excavation;
- Loading, transporting and disposal of petroleum contaminated soil; and
- Backfilling excavated cells.

The remedy implemented for OU II initially included NAPL removal using the Vacuum Enhanced NAPL Recovery system. This system was designed to use three mechanisms to remove contamination from the subsurface including; biodegradation, removal of NAPL-related vapors (i.e., volatilization) and physical NAPL removal. The Vacuum Enhanced NAPL Recovery remedy implemented within OU II is described in the *OU II Engineers Report*. Table 2-1 indicates that 11 soil gas extraction/NAPL recovery wells and 16 air inlet wells were installed in the NAPL L1 area.

The OU-II remedy was implemented in 2002; however, after the first few years of operation it appeared that this system was limited in its ability to remove LNAPL, the system was shut down and LNAPL was removed using various methods (e.g., bailing, the use of oil-only removal devices, etc.). Since December 2012, only 36.8 gallons of LNAPL were recovered from L1 NAPL area, with 26.8 gallons (or 73% of the total volume recovered from L1 NAPL area) recovered from well VE1-1 and 9.14 gallons (or 25%) recovered from well AI1-17.

The LNAPL present in the L1 NAPL area is typically a 'viscous, weathered' diesel that is not conducive to removal by conventional means. The viscosity of this LNAPL restricts its migration. [Note: The LNAPL in the L1 NAPL area is "more' viscous than the LNAPL in NAPL areas L2, L3 and L4, which is less viscous and thus more amenable to collection by conventional methods.]

As a precaution, monitoring wells positioned at the northern terminus of the L1 sheeting wall (i.e., SP-North) and the southern terminus of the L1 sheeting wall (i.e., WB-9) are routinely monitored (i.e., at least quarterly) for the purpose of assessing potential migration of LNAPL away from the NAPL L1 area. This routine monitoring of WB-9 and SP-North commenced on November 16, 2016 and October 4, 2016 (respectively). To date, LNAPL has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). LNAPL was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. The validity of these reported LNAPL thickness measurements is questionable since LNAPL was not detected in subsequent monitoring events.

References (electronic copies available upon request):

1. 1989, Fred C. Hart Associates, Inc. - *Remedial Investigation Report, Harmon Lagoon Croton-on Hudson, New York*, dated November 27, 1989
2. 1997, ERM Northeast - *Remedial Investigation/Feasibility Study Report, Volume I-Remedial Investigation, Harmon Railroad Wastewater Treatment Area, Operable Unit-II, NYSDEC Site No.: 3-60-010* dated January 24, 1997
3. 1998, ERM Northeast - *Remedial Investigation/Feasibility Study Report, Volume II-Feasibility Study Harmon Railroad Wastewater Treatment Area, Operable Unit-II, NYSDEC Site No.: 3-60-010* dated January 14, 1998
4. 2000, Environmental Resources Management, Inc - *Final 95% Submittal Engineer's Report Operable Unit II Remedial Design*, dated February 17, 2000 (Revised July 31, 2000)

Figures:

Figure 1 – OU-I and OU-II Site Plan

Attachments:

Attachment A – Prints Depicting the Half Moon Bay Property with Historic Aerial Photograph Overlays *obtained from the Westchester County GIS Website* (https://giswww.westchestergov.com/GISMap/index.html)

Attachment B – *Remedial Action Plan for Petroleum Contamination in Soil and Groundwater to be Conducted at the Southerly Section of the Undeveloped Portion of Half Moon Bay, Croton on Hudson, New York* dated October 26, 2001 (revised March 7, 2002) prepared by Galli Engineering *obtained from the DECinfo Locator Website* (https://extapps.dec.ny.gov/data/DecDocs/360010/)

FIGURES

Document Path: O:\GIS_Data\MNR\Harmon Yard\Well Mapping\Harmon OUI_OUII Wells\Harmon OUI_OUII Wells.aprx

Last Date Saved: 3/31/2022 9:40 AM

N

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

V-1	OU-I well within vault
P-9	Piezometer installed around OU-I/OU-II sheet pile wall
VE4-6	Well within OU-II
OUII-A	Off-Site monitoring well
SP-North	Monitoring well in terminus of sheet pile wall in NAPL Area L1

OU-II NAPL area boundaries

Approximate location of sheet pile wall around remediated former lagoon area (OU-I)

Approximate location of L1 sheet pile wall

Extent of OU-I final cover system

OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	03-2022
DRAWN BY	CPS
DATE DRAWN	03-2022
SCALE	As Noted
DATE ISSUED	03-30-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

Drawing Title
OU-I and OU-II Site Plan

Project No.
23-3690M

FIGURE 1

ATTACHMENT A

Prints Depicting the Half Moon Bay Property with Historic Aerial Photograph Overlays

Half Moon Bay property with 1947 aerial photograph

6/6/2024, 2:40:55 PM

Municipal Boundaries

1:4,514

0 215 430 860 ft

N

GIS
http://giswww.westchestergov.com
Michaelian Office Building
148 Martine Avenue Rm 214
White Plains, New York 10601

Half Moon Bay property with 1960 aerial photograph

6/6/2024, 2:43:59 PM

Municipal Boundaries

1:4,514

0 215 430 860 ft

N

GIS GEOGRAPHIC INFORMATION SYSTEMS
http://giswww.westchestergov.com
Michaelian Office Building
148 Martine Avenue Rm 214
White Plains, New York 10601

Half Moon Bay property with 1976 aerial photograph

6/6/2024, 2:46:22 PM

Municipal Boundaries

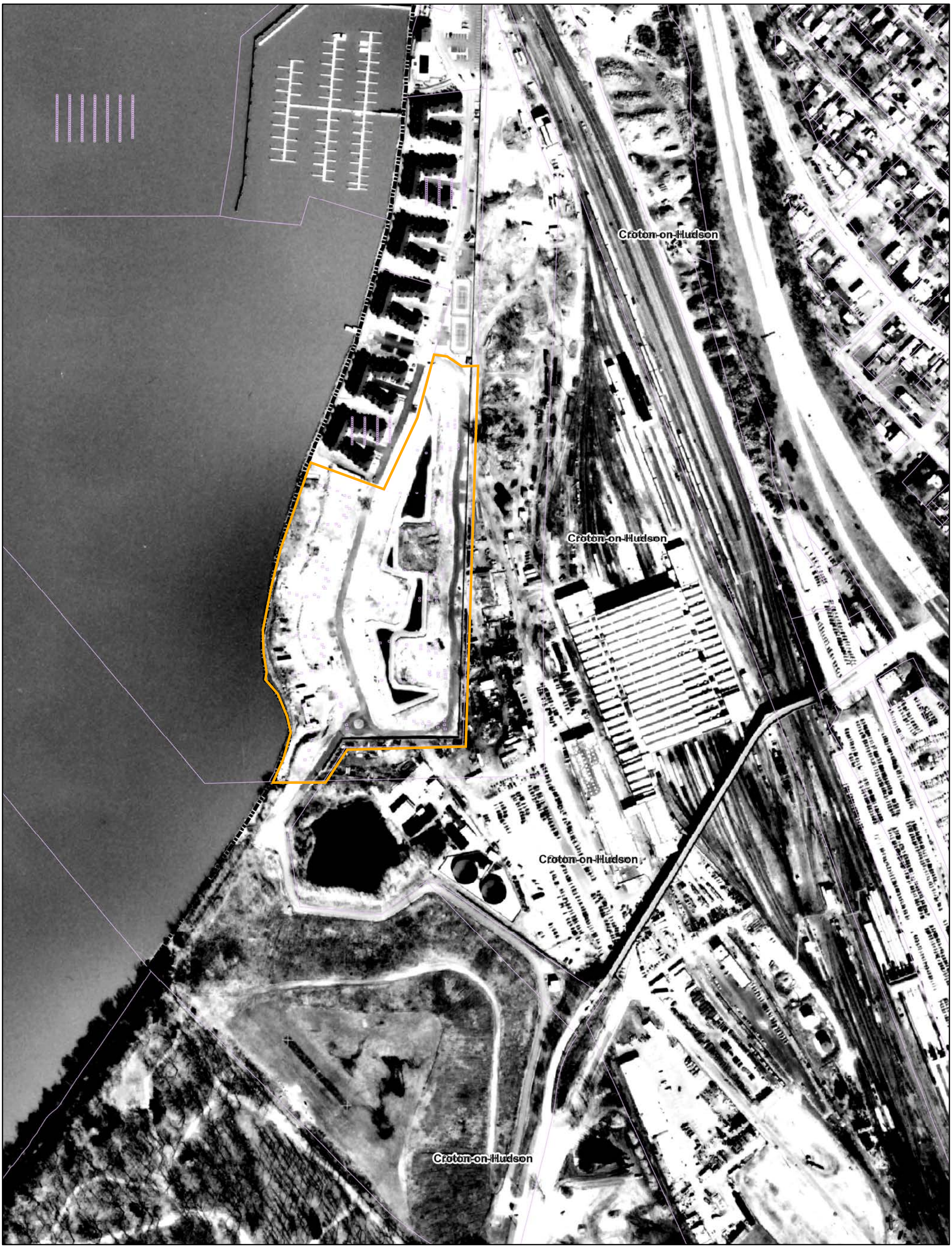
1:4,514

0 215 430 860 ft

N

GIS
http://giswww.westchestergov.com
Michaelian Office Building
148 Martine Avenue Rm 214
White Plains, New York 10601

Half Moon Bay property with 1990 aerial photograph



6/6/2024, 2:49:55 PM

Municipal Boundaries

1:4,514

0 215 430 860 ft

N

GIS
http://giswww.westchestergov.com
Michaelian Office Building
148 Martine Avenue Rm 214
White Plains, New York 10601

ATTACHMENT B

2002 Galli Engineering Work Plan

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1696
Phone: (845) 256-3109 • **FAX:** (845) 255-2987
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

March 12, 2002

RECEIVED
BUREAU OF CONSTRUCTION SERVICES

Michael D. Zarin
Zarin & Steinmetz
81 Main Street, Suite 415
White Plains NY 10601

Re: Spill # 0111227, Half Moon Bay, Croton on Hudson, Westchester Co.

Dear Mr. Zarin:

The Department has reviewed the Remedial Action Plan for the above site prepared by Galli Engineering, P.C., dated October 26 2001 and revised March 7, 2002. This plan proposes to remove both a layer of petroleum impacted soils and free phase petroleum product on the groundwater. The work is to be conducted at the Southerly section of the undeveloped portion of Half Moon Bay owned by Hudson Property Partners, LLC.

Please be advised that the Department approves the implementation of this plan. The report of endpoint sampling shall be submitted to the department within 45 days of the completion of the excavation work.

Your continued cooperation is appreciated.

Sincerely,

Peter J. DeCicco
Geologist 2
Region 3

cc: K. Timko, Metro North CRR, 347 Madison Avenue, NY, NY 10017-3739
R.Galli, Galli Engineering, P.C., 734 Walt Whitman Rd., Suite 402A, Melville, NY 11747
S. Goreau, WCHD
G. Burke, NYSDEC, Albany
C. Manfredi/P. Doshna
J. Hardy/T. Ghiosay

FAX TRANSMITTAL

Karen L. Timko
Director
MTA Metro-North Railroad
Department of Environmental Compliance & Services
347 Madison Avenue - 12th Floor
New York, NY 10017
Tel #: (212) 340-3322
Fax #: (212) 340-3460

Date: 3/8/02

To: Gerard Burke

Fax #: 518-402-9819

No. of pages including this page: 12

Gerard,

Here is the RAP. This "final" version was revised to reflect Pete DeCiccos comments. At our last discussion with him he indicated that he is satisfied with this version. Note also, that we have been in touch w/ West. Co. Dept. of Health & they are deferring to DEC (ie Pete) on this.

- Karen

REMEDIAL ACTION PLAN FOR PETROLEUM CONTAMINATION IN SOIL AND GROUNDWATER

TO BE CONDUCTED AT THE
SOUTHERLY SECTION OF THE UNDEVELOPED PORTION OF
HALF MOON BAY
Croton on Hudson, New York

PREPARED FOR:

HUDSON PROPERTY PARTNERS, LLC
115 Stevens Avenue
Valhalla, NY 10595

PREPARED BY:

Galli Engineering, P.C.
734 Walt Whitman Rd., Suite 402A
Melville, NY 11747

October 26, 2001
Revised March 7, 2002

03/08/2002 08:37 FAX 212 340 3460 ENVIR. COMPLIANCE & SRVC 002
MAR-07-2002 12:23 P.02/14

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APPENDIX A SITE MAP SHOWING PROPOSED BUILDING FOOTPRINTS AND LOCATIONS OF TEST PITS, WELLS AND BORINGS AS OF MARCH 2001

APPENDIX B MAPS FOR SOUTHWEST CORNER OF HALF MOON BAY

APPENDIX C ESTIMATED REMEDIATION COSTS

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PURPOSE AND INTRODUCTION

This Remedial Action Plan ("RAP") is intended to provide an operational framework for the planned remediation of the petroleum contamination at the southwest corner of certain undeveloped property, which is part of a parcel of land commonly known Half Moon Bay. This workplan has been prepared on behalf of Hudson Property Partners, LLC ("Hudson"), 115 Stevens Avenue, Valhalla, NY 10595, the owner of the undeveloped portion of Half Moon Bay, upon which Hudson is to construct residential condominiums. Hudson plans to begin construction of the condominiums in this area of the property by the Spring of 2002; site work construction and construction of condominiums on other portions of the property has commenced. The undeveloped portion of Half Moon Bay is hereinafter referred to as the "Property".

Half Moon Bay is located in Croton-on-Hudson, Westchester County, New York. The active Croton Harmon Rail Yard, operated by Metro-North Commuter Railroad Company, borders Half Moon Bay on the east. The developed portion of Half Moon Bay, consisting of 120 residential condominiums, is on the northern end of the Property. The Westchester County Croton Point Park and the former County landfill, which is now closed, border the Property to the south. The Hudson River forms the western boundary of Half Moon Bay.

In preparation for development, extensive environmental investigations have been conducted on the undeveloped portion of Half Moon Bay, including test pit excavations, soil sampling, monitoring well installation and groundwater sampling. Petroleum contamination has been detected in monitoring wells and soil samples in the southwest corner of the Property only (the "Site"). The extent of the contaminated plume has been delineated and is shown on the map attached as Appendix B.

The contamination that is present on the Site is believed to have migrated onto the Site from the adjacent Metro-North Croton Harmon Railroad Yard or remains from the historic use of the Property for railroad purposes. The Half Moon Bay Site will be addressed and treated as a separate, discrete clean-up from the one presently occurring on the adjacent Metro-North property due to different ownership and characteristics (i.e., OUII as hereinafter described). Metro-North and Hudson are cooperating with each other in the remediation of the Site.

Hudson will begin the planned remediation by removing the first "cell" of contaminated product (as hereinafter described) from the Site for off-site disposal and then backfilling the first "cell". Metro-North will then install a sheeting wall near the property line separating the Site from Harmon Yard, as previously approved by the New York State Department of Environmental Conservation ("DEC"). Following the installation of the sheeting wall, Hudson will continue to remove the contaminated product from the Site for offsite treatment and disposal. Finally, in accordance with a recorded Declaration dated October 27, 1987, required by the Westchester County Health Department, clean fill material will be brought on the Property to serve as final cover for the top two feet of soil during construction of the condominiums.

The purpose of this RAP is to describe and document the technical approach, scope of work and remedial methodology to either eliminate the detected contamination or reduce it to an acceptable level deemed protective of public health and the environment. Hudson is not

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requesting that this remediation be included as part of the DEC's Voluntary Cleanup or other Program.

1.0 BACKGROUND AND SITE DESCRIPTION

The undeveloped portion of Half Moon Bay is approximately 14 acres and is generally flat. The western edge of the Property is approximately 15 feet above the Hudson River with a tiered drop off to the water. Riprap protects the shoreline of the Property. The vegetation on the Property is mostly grass and bushes as the Property has been cleared and grubbed recently. Roads, utilities and a basin for a man-made pond are present on the Property.

Environmental Conditions and Existing Remedial Measures

The existing Croton Harmon Railroad Yard ("Harmon Yard") borders the Property on the East. Harmon Yard was placed on the State Registry of Inactive Hazardous Waste Disposal Sites in 1985 because of the discovery of polychlorinated biphenyls (PCBs) at the old wastewater treatment plant and equalization lagoon. In December 1988, the DEC split the Harmon Yard into two sites. The old plant and lagoon were designated as one site, and the remainder of the Harmon Yard was removed from the State Registry of Inactive Hazardous Waste Disposal Sites and is being investigated as a petroleum-only site since no hazardous waste is present outside of the lagoon and plant area.

Metro-North initiated a Remedial Investigation/Feasibility Study (RI/FS) for the old plant and lagoon in 1988. After the RI/FS was completed, the DEC issued a Record of Decision ("ROD") in 1992. The ROD separated the old plant and lagoon area into two operable units designated OU-I and OU-II. The OU-I remedial action was for the dismantling of the old wastewater plant and the remediation of the lagoon itself. This remedial action was completed in May 1996.

In March 1998, the DEC issued a ROD for OU-II. OU-II consists of floating product including Non-Aqueous Phase Liquid ("NAPL") in the groundwater around the perimeter of the former lagoon. DEC has selected remedial measures for OU-II, which Metro-North is in the process of implementing. These measures include installing sheeting along the edge of the lagoon along the Half Moon Bay and County property lines to prevent migration of the NAPL to those sites.

The Westchester County Department of Health issued a Declaration dated October 27, 1987, covering the entire Half Moon Bay property, the portion that has since been developed and the current undeveloped portion. This Declaration was recorded in the Land Records for Westchester County and runs with the land. A copy of the Declaration is attached hereto. The Declaration sets forth certain conditions that must be fulfilled in order to construct the development. Certain of these conditions have been met, and a Release of these conditions has been duly executed and filed.

The remaining conditions from the Declaration applicable to the current undeveloped portion include as follows: (a) clean fill material will be brought on site to serve as final cover for the top two feet of soil up to grade level for the entire undeveloped portion of the Property; and (b) periodic groundwater sampling and analysis shall be undertaken at the monitoring wells along

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the southern and eastern borders of the property. Groundwater is not the source of drinking water for the development. Complying with this Declaration and the requirements of the Health Development is considered part of the remedial measures for the Property.

Summary of Environmental Investigations

Numerous investigations have been conducted on the Property for both the former and current owners prior to purchase and development. The investigations have included test pit excavation, soil sampling, monitoring well installation, and groundwater sampling. Petroleum contamination on the site was first identified in 1994. More recent additional investigations were conducted in November 2000, January, February and March 2001 to determine the extent of the petroleum contamination on the Property. This further investigation confirmed that some petroleum contamination was present and confined to the southwest corner of the Property in a localized area. There were no elevated levels of volatile organic compounds or PCB's in excess of the NYSDEC TAGM standards detected at the Property. Appendix A contains a copy of the site plan prepared by John Meyer Consulting, which shows proposed building footprints and the locations of the test pits, wells and borings that have been performed through March of 2001.

In July and August 2001, Metro-North and Hudson conducted additional joint sampling and subsequent forensic analysis of samples from monitoring wells and test pits on the Site and the adjacent portions of Harmon Yard. The forensic analysis determined that certain of the petroleum contamination on the Subject Site and Harmon Yard have similar characteristics and that no detectable levels of PCB's in excess of NYSDEC standards have been found at the Site. The results of this sampling were used to further delineate the plume on the Site, as shown on Appendix B.

The petroleum contamination is not expected to be found beyond this delineated plume based on test results, site hydrogeology and direction of known groundwater flow. The petroleum samples exhibited tar like viscosity. This further reinforces the conclusion that the petroleum contamination is very localized.

2.0 REMEDIATION ACTIVITIES

The scope of work described in the sections below is an outline of the process and steps that are to be used in the cleanup of the Site. The New York State Department of Environmental Conservation (NYSDEC) and Westchester County Health Department (WCHD) will both be notified at least 48 hours in advance of the excavation date so that arrangements can be made, if desired, for their representatives to be present to witness the excavation and obtain samples.

2.1 SCOPE OF WORK

The extent of the contaminant plume to be remediated is approximately 140' x 100'. To minimize seepage of water from the Hudson River into the excavation area, the contractor will, in a North/South direction (generally running parallel to the Hudson River) and starting at the easternmost point of the parcel, remediate the parcel in 25-30 foot strips or cells that will run the length of the project area (approximately 100 feet). The remediation will be conducted by operating

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in these 25' x 30' cells. The first cell will be remediated pursuant to the following scope of work. Immediately after the first cell is remediated, Metro-North will install the sheeting along the property line with Harmon Yard. The work on the remaining cells will be performed concurrently or subsequently to the installation of the sheeting wall.

The Scope of Work for each cell is summarized as follows:

1. Excavate and stockpile clean overburden;
2. Excavate and stockpile contaminated soil;
3. Pump and remove floating oil entering the excavation;
4. Load, transport, and dispose of petroleum contaminated soil; and
5. Backfill of overburden.

The goal of the scope of work is to remove the contaminated product (soil and liquid) from the Site for offsite treatment and disposal. The items in the scope of work are further detailed in the following paragraphs. The mobilization and demobilization of labor and equipment required to carry out the scope of work is considered part of items #1 and #5 (respectively) in the scope of work. Other activities such as endpoint sampling of the Northernmost and Southernmost points of each section and screening will occur concurrently with remedial actions.

Excavation and Removal Methodology

At each cell, the clean overburden will be excavated and set aside near both the current cell and the next one. The excavation and stockpiling of the clean overburden will consist of mobilization of equipment, layout of the stockpile area, excavation of the clean overburden, stockpiling of the clean overburden, air monitoring, and field-testing of soil to verify clean nature of the soil.

All overburden will be removed in this manner until proximity to the water table prevents further equipment accessibility. Whether the overburden is uncontaminated or not will be determined in the field using a PID meter. If odors, staining or PID readings of 20 ppm or greater are encountered, samples will be collected in accordance with the NYSDEC publication "Sampling Guidelines and Protocols". The overburden will be disposed of in accordance with applicable law. Absent the above indications, the overburden will be left on-site.

With the overburden from the entire cell excavated to within several feet of the water table, the contaminated soil will then be excavated for removal and disposal. A berm will be formed at the edge of the cell during excavation of the overburden to provide a pitched location for placement of the contaminated soil from near the water table. Since this material may be wet, it will be placed on top of a heavy plastic liner laid over the previously formed berm. The liner will divert any free liquid flowing off the pile back into the hole.

As soon as the contaminated soil is removed, a vac truck will be used to suck up any floating product layer. Upon completion of the remediation of each cell, that cell will be filled in immediately with clean overburden in order to prevent the migration of contaminants from any adjacent sections. As an additional measure, a solution of oil-consuming bacteria will be sprayed liberally into the hole, particularly near the water table. The process will then be repeated for

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each cell.

In order to control the amount of water infiltrating the excavation from the Hudson River, the contractor will keep as much soil as possible between the river and the pit as a buffer. To further reduce the amount of liquids drawn off during this remedial activity phase, the contractor will perform the pumping of the liquid material at the most advantageous cycle of the estuarial tidal fluctuation.

As stated above, a two-foot thick layer of clean fill material will be brought on-site and placed over the Property to raise the Property as well as encapsulate the existing on-site soils during construction of the condominiums.

Excavation will proceed cell by cell as described above in rows starting along the Metro-North property line. Upon excavating the first cell, a sample of the end (north and south) walls will be analyzed by PID. Based upon the results of the PID, one of the two following courses of action will be taken: 1) If the PID reading is <10ppm, an endpoint sample will be collected. This will consist of three grab samples from along the wall composited into one. The grab samples will be collected at a distance approximately one third up from the bottom of the layer or zone of soil contamination, and will be collected on the northern face of the excavation cell to establish the north limit of the petroleum contamination and from the southern face of the excavation cell to establish the southern limit of the petroleum contamination. All grab samples shall be taken no less than six inches from the exposed surface into the wall; or 2) If the PID reading is equal to or >10ppm, or there is obvious visible staining, excavation will continue until a PID reading of <10ppm is encountered and grab samples can be taken. Several random grab samples will be collected to form one composite sample from the bottom of the pit along each row of excavation. A spill containment boom shall be maintained on site during excavation.

The end point samples shall be analyzed for the parameters specified in the RAP as well as for Total Organic Carbon (TOC) USEPA Method 9060. In the event the results of the endpoint samples are within acceptable ranges in the NYSDEC guidelines established in Technical and Administrative Guidance Memorandum #4046, no further excavation will be required. If some or all of the results are at levels above those guidelines further excavation will occur or, in the alternative there will be additional discussion with the NYSDEC as to whether, based upon the limited exposure pathways that will remain at the site following construction, further excavation is not warranted.

No end point samples will be collected on the east or west walls of the excavation. The east wall of the excavation shall be the property boundary line with Metro-North, while the west wall of the excavation will itself be removed in subsequent steps to the location where the rip rap area bordering the Hudson River begins.

2.2 DISPOSAL OF CONTAMINATED SOIL AND LIQUIDS

The soil excavated from the areas of known contamination will be stockpiled, as necessary, on and under polyethylene sheeting. This will allow for soil disposal testing and more efficient loading for transport to the disposal site. The actual volume of stockpiled soil may vary based upon actual field

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conditions encountered. In the event that certain contaminated soils are saturated and free draining the use of roll-off containers with built-in sumps will be used to collect leachate and will be utilized to transport the petroleum contaminated soils to the final disposal facility.

The contaminated soil will be transported for disposal or treatment to an appropriately permitted facility. The disposal facility has not been determined as of the time of this report. Based on the known nature of the soil contamination, disposal facilities and options are readily available.

Disposal of the liquid product generated in the course of the remediation may involve transport to a local disposal facility. Facilities in the immediate area can readily process petroleum-contaminated liquid product. Final decision on a disposal facility has not been reached at this point in time.

The final disposition of the contaminated materials will be in accordance with all applicable federal, state, and local regulations. Disposal facilities will be decided based on the results of laboratory analysis for disposal parameters, distances to facility and cost of disposal. The NYSDEC will be notified in writing five (5) days prior to the removal any contaminated soils or groundwater with the names of the waste transporters and disposal facilities and their respective licenses and permits for its review.

2.3 EQUIPMENT DECONTAMINATION

The excavating equipment will be visually cleaned before excavating contaminated areas. The excavation equipment will be visually brush cleaned upon completing excavation of the contaminated area. This is being done to minimize the wash water generated at the Site and requiring offsite disposal.

3.0 AIR MONITORING

Air Monitoring will be conducted using dust monitors and a Photo Ionization Detector (PID) to ensure that flammable vapors are not present and that particulate matter is not migrating from the Site. Air monitoring will take place in accordance with the New York State Department of Health guidance values. Monitoring for background levels will take place at the start of each workday. The monitors will then be moved to the downwind side of any ongoing work to monitor for excessive levels of dust or flammable gases.

Detection of excessive dust is unlikely based on the nature of the material being excavated. Dust suppression activities will be implemented if conditions indicate that dust may become problematic. The PID will be used to monitor for explosive vapors. Detection of levels in excess of 5 ppm above background levels will result in a stoppage of work until the levels have dropped back to within 5 ppm of background.

4.0 LAB ANALYSIS

Laboratory analysis of contaminated soil will be performed to satisfy disposal facility requirements. It is anticipated that the petroleum contaminated soil will be analyzed for semi-volatile organic compounds, total petroleum hydrocarbons (TPH), Toxicity Characteristic Leaching Procedure

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(TCLP) and other methods as required by the disposal facility. The endpoint samples for the excavation will be analyzed for semi-volatile organic compounds and TPH to ensure that the residual contamination, if present, is within NYSDEC guidelines.

Field testing using a PID or other methods will be used to determine when endpoint samples will be taken. This field testing will supplement field observations, photographic documentation, and laboratory analysis. All laboratory analysis will be performed by a NYSDOH ELAP certified lab. The laboratory will provide all sample containers. The endpoint samples for the excavation will be analyzed via EPA Method 8270 (BN) and EPA Method 418.1. The laboratory will provide trip and lab blanks if requested.

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APPENDIX A

SITE MAP WITH TEST PITS, WELLS AND BORINGS TO MARCH 2001

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APPENDIX B

MAPS FOR SOUTHWEST CORNER

APPENDIX C

ESTIMATED REMEDIATION COSTS

The following estimated costs are for an area measuring 140' x 100'.

Excavation Contractor

Excavator and operator, 25 days @ $20,000/month	$ 25,000
Dump Truck, 25 days @ $650/day	$ 16,250
Vac truck, 25 days @ $1,000/day	$ 25,000

Contaminated Soil Disposal

1100 cubic yards x 1.5 tons/yard = 1,650 tons
1,650 tons x $45/ton (T&D) = $74,250

Contaminated Liquid Disposal

10,000 gallons @ $0.50/gal = $5,000

Health and Safety Plan Implementation

Field Technician, 25 days x 8 hrs/day x $70/hr = $14,000
Project Engineer, 64 hrs x $95/hr = $6,080
PID rental, 1 month @ $900 = $900

Sampling and Analysis

For Soil Characterization:

Priority Pollutant VOC's, w/ library search
Priority Pollutant SVOC's, w/ library search
PCB's
20 samples (est) @ $435 = $8,700

For Waste Disposal Acceptance:

Full TCLP
PCB's
Ignitability
Corrosivity
Reactivity

3 samples (est) @ $825 = $2,475

Biological Agents	
Purchase of agents and rental of spray equipment	$ 10,000
Expenses	
Consumables, sampling equipment	$ 500
Summary Report	$ 5,000
Contingency (25%)	$47,040
ESTIMATED TOTAL (140' x 100' area)	**$235,195**

This price does not include any provision for protection of utility lines that may need to remain in service, particularly the water main beneath the roadway.

The volume of liquid to be removed may vary based on site conditions. The actual cost will be dependent on the actual quantity of liquid pumped from the excavation and the method used for its disposal.

Attachment C

Site Management Plan Status Reports

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JANUARY 1, 2022 THROUGH MARCH 31, 2022

HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between January 1, 2022 and March 31, 2022 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Metro-North Railroad (MNR) received a letter titled "2020 Site Management Plan Status Reports" from the New York State Department of Environmental Conservation (NYSDEC), dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021 (the Corrective Measures Work Plan). This document presents actions proposed to address other comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. Comments on the Corrective Measures Work Plan were received from the NYSDEC on March 8, 2022, and MNR responded to these comments on April 19, 2022.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the results of this monitoring, are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured in February 2022 (i.e., February 8, 2022 to February 9, 2022) is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: During the report period, Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product) were used to remove free product from wells RW-1, FA4-8, and AI2-3; and a bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ was formerly located in well FA4-17. However, it was removed during a previous report period and a portable Spill Buddy™ was used to remove free product from this well during the current report period.]

A Spill Buster™ was installed in well AI2-3 in November 2016, and subsequent to its installation approximately 128 gallons of free product was removed in 2016, approximately 301 gallons of free product was removed in 2017, approximately 120 gallons of free product was removed in 2018, and approximately 116 gallons of free product was removed in 2019 from this well. Between January 1,

2020 and September 30, 2020, approximately 8.2 gallons of free product was removed from well AI2-3. However, between October 1, 2020 and June 30, 2021, no free product was removed from well AI2-3. Between July 1, 2021 and September 30, 2021, approximately 47.4 gallons of free product was removed from well AI2-3; between October 1, 2021 and December 31, 2021, approximately 2.6 gallons of free product was removed from well AI2-3; and, during the current report period (i.e., between January 1, 2022 and March 31, 2022), approximately 26.8 gallons of free product was removed from well AI2-3. The reason for the varying amounts of free product removed from well AI2-3 is not known, but the reduced amount of free product removed during recent reporting events could be attributable to a decreasing amount of free product in the area of AI2-3.

The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period, and Table 1 presents a summary of the amount of free product removed from each well during the current report period. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and December 31, 2021) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between January 1, 2022 and March 31, 2022) and the preceding report period (i.e., between October 1, 2021 and December 31, 2021) is included as Figure 2. As shown in the above tables, approximately 126 gallons of free product was removed in the current reporting period (i.e., between October 1, 2021 and December 31, 2021). The majority of the free product was removed from NAPL Area L4 (i.e., approximately 92.74 gallons). [Note: The total amount of free product removed in the previous reporting period (i.e., between October 1, 2021 and December 31, 2021) was approximately 87.7 gallons.] Since January 1, 2013, approximately 4,676 gallons of free product or approximately 126 gallons has been removed per reporting period (i.e., every three months).

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected from full 55-gallon drums, and drums were not removed from the Site for off-site disposal, during the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2021 (the most recent sampling event) is included in the tables listed below for reference purposes.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and,
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is scheduled to be completed in June 2022. During this event, it is anticipated that samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, metals. In addition, it is also anticipated that samples from monitoring wells VE1-4, VE2-1, and VE4-11 will be tested for PFAS and 1,4-dioxane. [Note: In response to comments in the May 7, 2021 letter received from the NYSDEC, groundwater samples were collected in 2021 from additional monitoring wells. Specifically, groundwater samples were collected from monitoring wells FA4-9, VE4-7, and VE4-9 and off-site monitoring wells OUII-C and OUII-E and tested for the VOCs, SVOCs, metals, and PCBs. Also, samples were collected from monitoring wells FA4-16, and PGW-2 and off-site monitoring wells OUII-B, OUII-D, and OUII-F and tested for PCBs. During the upcoming sampling event, groundwater samples will be collected from monitoring wells FA4-9, VE4-7,VE4-9, FA4-16, PGW-2 and off-site wells OUII-A through OUII-F and tested for PCBs.]

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during this report period for these wells are provided in Attachment A. As shown, during the weekly monitoring completed during the report period, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F. [Note: The amount of free product detected in off-site monitoring well OUII-A was 0.02 ft. or less.] Free product was not detected in wells OUII-C or OUII-E. Table 8 shows the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date and Figure 3 presents the average free product thicknesses detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the average amount of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected appears to decrease when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of NAPL Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in NAPL Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on October 27, 2021 by MNR.

During the October 27, 2021 inspection of the OU-I and OU-II areas, the following item requiring corrective actions was identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area. [Note: Due to Covid-19 reductions in manpower, the scrap removal was delayed.]

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on October 27, 2021 was included in the status report completed for the previous report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between April 1, 2022 and June 30, 2022), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a previously installed Spill Buster™ is functional in a well, but that limited free product remains in that location, the Spill Buster™ will be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5). Free product remaining in the well where the Spill Buster™ was removed should be collected using a portable Spill Buddy™. Free product detected in wells not containing a Spill Buster™ system should be removed using a portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it will be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it will be removed using a bailer. If free product recovery from off-site monitoring wells is determined to be limited, alternative removal methods will be evaluated and implemented.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Depending on subcontractor availability and scheduling, work will be initiated during the next reporting period to re-survey existing monitoring wells, clean/redevelop select monitoring wells, and clean/replace Spill Buster™ systems. Subsequent to this work, wells deemed to be not functioning properly, or no longer required for site monitoring, will be decommissioned. If necessary, select monitoring/recovery wells will be replaced. In addition, new monitoring wells described in the Corrective Measures Work Plan will be installed/developed.

The next OU-I/OU-II inspection is scheduled for on or about April 30, 2022. The next groundwater sampling and testing will be completed on, or about, June 30, 2022. A SMP status report for the work completed during the upcoming period (i.e., April 1, 2022 through June 30, 2022) will be submitted in

July 2022. A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

Tables

Table 1: Free Product Removal Totals: January 1, 2022 through March 31, 2022
Table 2: Historic Free Product Removal Totals: December 1, 2012 through December 31, 2021
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: February 2022
Figure 2: Summary of Free Product Removal for the Report Periods January 1, 2022 – March 31, 2022 and October 1, 2021 – December 31, 2021
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: January 1, 2022 through March 31, 2022
Attachment B: Off-Site Monitoring Well Hydrographs

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: January 1, 2022 through March 31, 2022

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	4.26
Total	**4.26**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	2.25
VE1-2	0
VE1-3	0
VE1-4	NM
WB-9	0
Total	**2.25**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	26.8
VE2-1	0
Total	**26.8**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	NM
FA4-8*	13
FA4-9	0
FA4-10	NM
FA4-11	0.25
FA4-12	0
FA4-13	0
FA4-14	5.95
FA4-15	6.51
FA4-16	3.64
FA4-17	5.76
FA4-18	1.25
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	52.0
VE4-1	0
VE4-5	4.38
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	0
Total	**92.74**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - December 31, 2021

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	155.61
Total	**185.105**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	17.99
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**27.982**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3	921.23
VE2-1	0
Total	**922.86**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	564.66
FA4-9	3.48
FA4-10	0.13
FA4-11	143.52
FA4-12	10.92
FA4-13	101.8
FA4-14	263.06
FA4-15	71.96
FA4-16	66.59
FA4-17	71.721
FA4-18	108.5
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	22.58
RW-1*	1649
VE4-1	0
VE4-5	209.82
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	4.93
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3310.05**

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																		
		VE 1-2												VE 1-4												VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																		
		VE 3-1												VE 4-11												DAY 1											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/2019	6/3/2020	8/26/2021
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	0.41 J
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																	
		Field Blank									Trip Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 1-2												VE 1-4												VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	NT	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.40]	ND [1.90]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 3-1												VE 4-11																							
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	8/24/2021										
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]									
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]									
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]									
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.30]										
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**									
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]									
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**									
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]									
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**									
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**									
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]									
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]									
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]									
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**									
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]									
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]									
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50]	ND [1.40]	9.30	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [1.40]	ND [1.90]									

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																				
		DAY 1												Field Blank								
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.90]	

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location																																					
		VE 1-2												VE 1-4												VE 2-1													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date											
		VE 3-1											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																							
		VE 4-11																							
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21											
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]											
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]											
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]											
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]											
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]											
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]											
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]											
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]											
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]											
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND											

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date											
		DAY 1											
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date							
		Field Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date										
		OUII-A	OUII-C	OUII-D	OUII-E	OUII-F	FA4-9	FA4-11	FA4-16	PGW-2	VE4-7	VE4-9
		8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/26/21	8/24/21	8/24/21	8/24/21	8/25/21	8/24/21
Aroclor 1016	NS	ND [0.13]	ND [0.13]	ND [0.91]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.41]	ND [0.13]	ND [0.13]
Aroclor 1221	NS	ND [0.14]	ND [0.14]	ND [0.99]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.45]	ND [0.14]	ND [0.14]
Aroclor 1232	NS	ND [0.17]	ND [0.17]	ND [1.20]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.54]	ND [0.17]	ND [0.17]
Aroclor 1242	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1248	NS	ND [0.12]	ND [0.12]	ND [0.87]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.39]	ND [0.12]	ND [0.12]
Aroclor 1254	NS	14.7 D	ND [0.12]	8.30 P	ND [0.12]	2.00 P	ND [0.12]	0.89 P	10	2.1	0.35 JP	ND [0.12]
Aroclor 1260	NS	ND [0.11]	ND [0.11]	ND [0.76]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.34]	ND [0.11]	ND [0.11]
Aroclor 1262	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1268	NS	ND [0.16]	ND [0.16]	ND [1.20]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.53]	ND [0.16]	ND [0.16]
Total PCBs	0.09	14.7	ND	8.3	ND	2	ND	0.89	10	2.1	ND	ND

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Estimated Value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 1-2											VE 1-4											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 2-1												VE 3-1										
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 4-11												DAY 1										
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Guidance Values[1]	Test Location and Sample Date														
		VE 1-2	VE 1-4						VE 2-1							
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19
Perfluorooctanoic acid (PFOA)	10	5.2	**29**	**50**	**51.3**	15	44	43	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	**23**
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	24	3.4	5.4	ND [10]	ND [10]	11	14	41
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-
Perfluorooctanesulfonic acid (PFOS)	10	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	62.7	16	21	42.9	38.2	60.4	66.9	104
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	24	3.4	5.4	0	0	11	14	248.21
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date												
		VE 3-1	VE 4-11					DAY 1	Field Blank					Equipment Blank
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/2/17	2017	2018	FB91119	FB6420	FB-082621	EB-082621
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanoic acid (PFOA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanesulfonic acid (PFOS)	10	**14**	7.2	4.2	ND [10]	5.2	6.1 I	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [1.7]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.42]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	2.0 J B
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [0.85]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [0.51]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
PFOA & PFOS		19.6	7.2	4.2	-	-	7.5	34	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)		3.3	39	15	10.5	6.8	184.91	5.4	ND	ND	ND	ND	1.7	1.7
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	46.8	ND	ND	ND	ND	1.7	1.7
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	NT	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.

2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

N

LEGEND:

- VE 4-6 (8.13 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made February 2022
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	05-2022
DRAWN BY	CPS
DATE DRAWN	05-2022
SCALE	As Noted
DATE ISSUED	05-02-2022

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

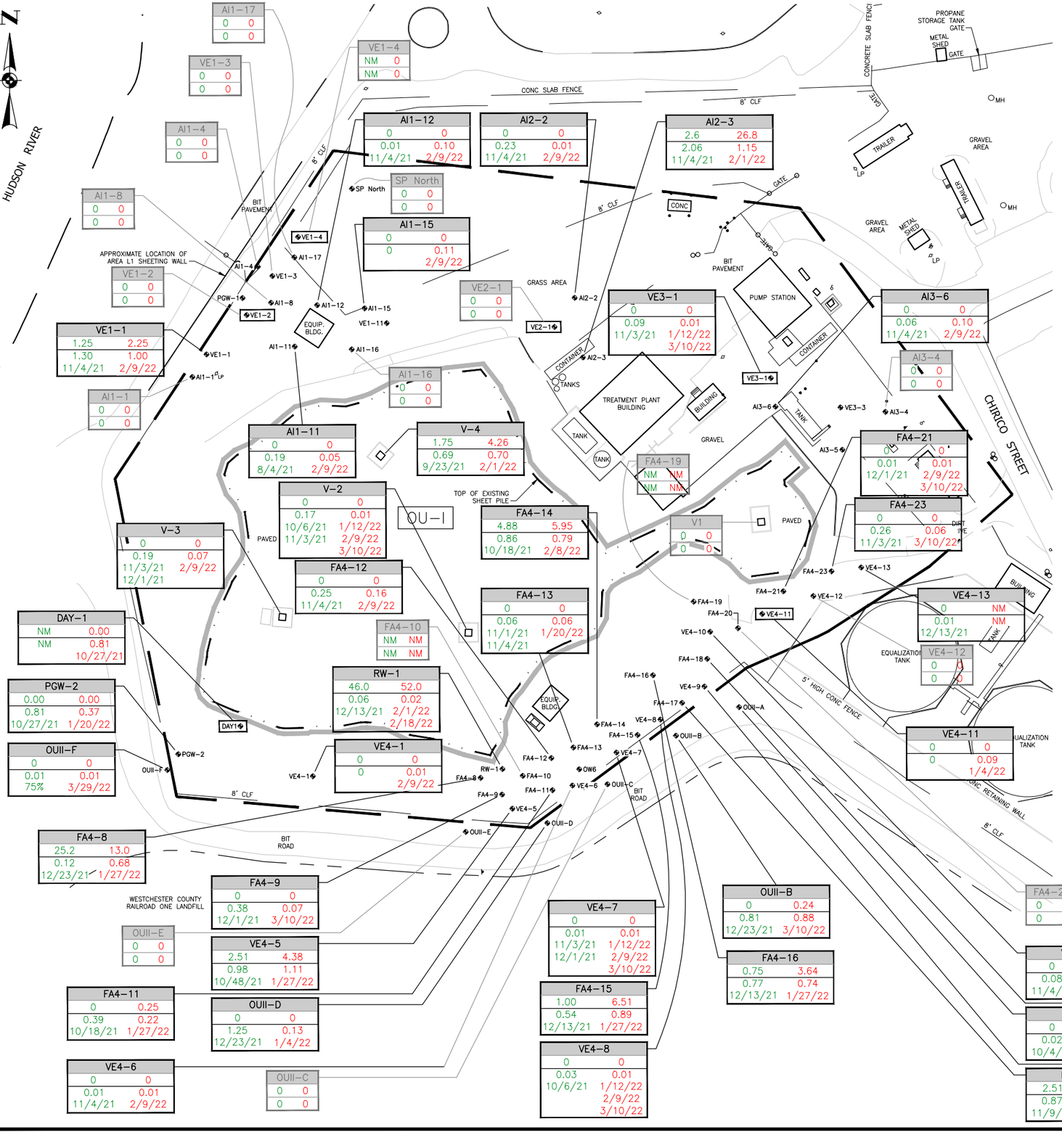
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: February 2022

Project No.
22-3636M

FIGURE 1



SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- VE1-3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1-2 — Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- V-1 — OU-I Contingency Vapor Extraction System Wells
- FA4-14 / 4.88 5.95 / 0.86 0.79 / 10/18/21 2/8/22 — Long-Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period October 1, 2021 Through December 31, 2021 Shown In Green (Left)

Measurements Made During The Report Period January 1, 2022 Through March 31, 2022 Shown In Red (Right)

NM — Well Not Measured

PROJECT MANAGER	HMM
DATE	4/2022
DRAWN BY	RJM/CPS/TW
DATE DRAWN	4/13/2022
SCALE	As Noted
DATE ISSUED	4/13/2022

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ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

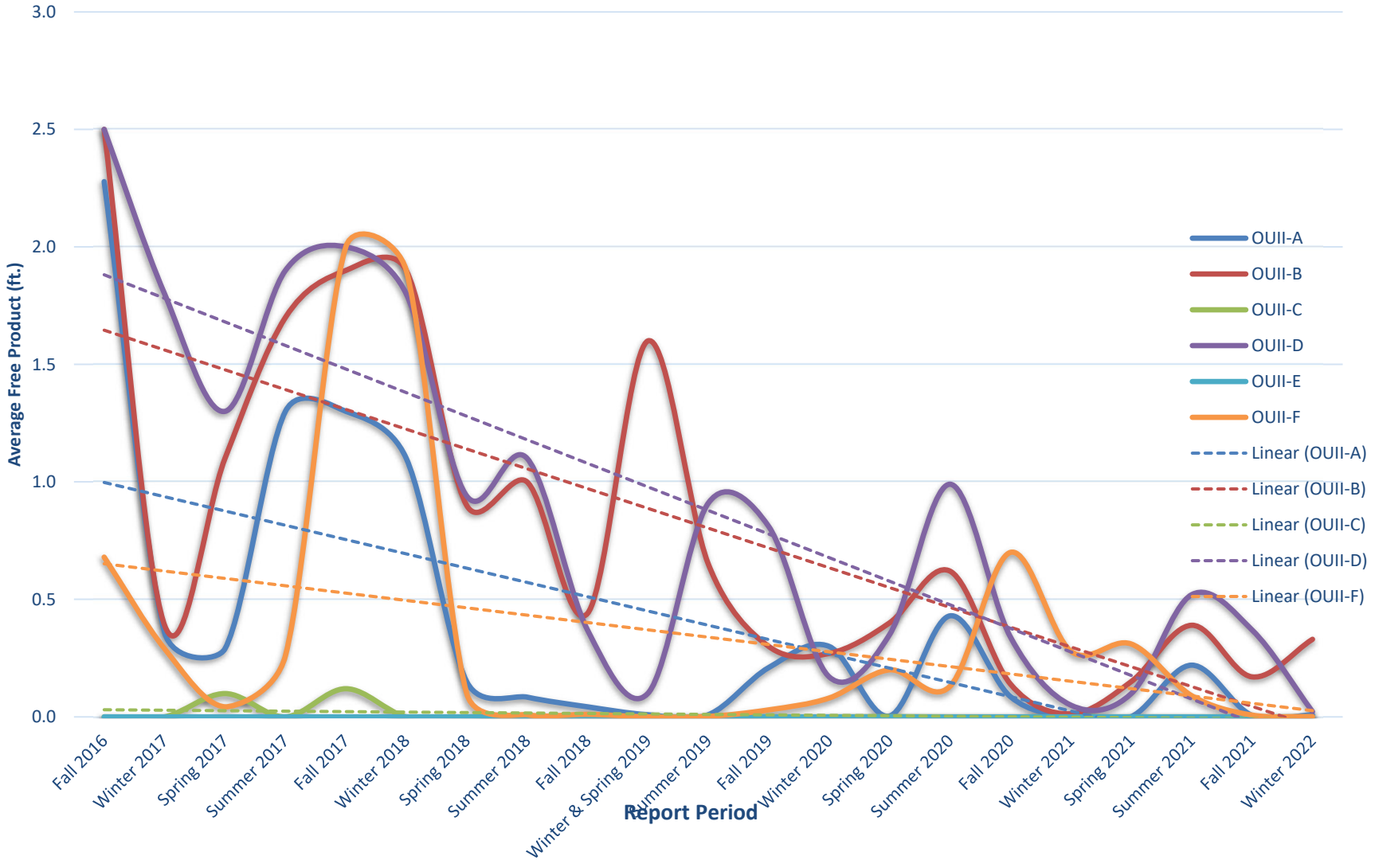
DRAWING TITLE
Summary Of Free Product Removal For The Report Periods October - December 2021 and January - March 2022

PROJECT NO.
22-3636M

FIGURE 2

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb
Ref1:
Ref2:
Ref3:
Time Plotted: Wednesday, April 13, 2022 8:17:47 AM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period Jan-Mar 2022.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
January 1, 2022 through March 31, 2022

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.29	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.3	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	12.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	3.01	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured; well blocked					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.17	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.16	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	-	12.85	0	0	
2/9/2022	-	12.86	0	0	
3/10/2022	-	12.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13.39	13.4	0.01	0	
2/9/2022	13.35	13.36	0.01	0	
3/10/2022	13.3	13.31	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13	13.01	0.01	0	
2/9/2022	12.75	12.82	0.07	0	
3/10/2022	12.9	12.91	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	12.34	12.7	0.36	0	
1/11/2022	11.81	12.29	0.48	0	
1/20/2022	12.02	12.48	0.46	0	
1/27/2022	12.35	12.95	0.6	1	
2/1/2022	12.35	13.05	0.7	1.13	
2/8/2022	11.98	12.4	0.42	0.88	
2/18/2022	12.49	12.6	0.11	0	
2/23/2022	12.3	12.48	0.18	0	
3/4/2022	12.35	12.51	0.16	0	
3/10/2022	12.25	12.65	0.4	0.75	
3/15/2022	12.28	12.43	0.15	0	
3/22/2022	12.28	12.69	0.41	0.5	
3/29/2022	12	12.18	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.29	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	10.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.75	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	14.55	14.6	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	17.51	17.61	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	18.81	18.92	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	12.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	9.42	0	0	
1/11/2022	-	9.12	0	0	
1/20/2022	-	9.23	0	0	
1/27/2022	-	9.52	0	0	
2/1/2022	-	9.65	0	0	
2/8/2022	-	9.32	0	0	
2/18/2022	-	9.58	0	0	
2/23/2022	-	9.63	0	0	
3/4/2022	-	9.56	0	0	
3/10/2022	-	9.53	0	0	
3/15/2022	-	9.58	0	0	
3/22/2022	-	9.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	7.1	8.1	1	2.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	7.71	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	7.04	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	8.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	8.75	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	15.08	15.09	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2022	15.41	15.43	0.02	0	Drum-1.32
1/11/2022	15.36	15.44	0.08	0	drum-1.13
1/20/2022	15.38	15.4	0.02	0	Drum- 1.14
1/27/2022	15.38	16.5	1.12	0	Drum- 1.30 **Pump housing needs to be replaced** currently working in solution
2/1/2022	15.45	16.6	1.15	0	Drum- 1.29
2/8/2022	15.33	15.75	0.42	0	Drum-1.31
2/9/2022	15.33	15.75	0.42	0	
2/18/2022	15.45	15.69	0.24	0	Drum-1.85
2/23/2022	15.42	15.52	0.1	0	Drum-2.09
3/4/2022	15.41	15.85	0.44	0	Drum-2.35
3/10/2022	15.35	15.4	0.05	0	Drum-2.31 Started new drum
3/15/2022	15.19	15.28	0.09	0	Drum-0.18
3/22/2022	15.25	15.26	0.01	0	Drum- 3.24 (new drum)
3/29/2022	15.11	15.35	0.24	0	Drum-0.16

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated '1.32 ft'. Approximately 26.8 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.89	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	16.78	16.88	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	14.39	14.4	0.01	0	
2/9/2022	-	14.16	0	0	
3/10/2022	14.03	14.04	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	16.02	16.03	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2022	16.65	16.71	0.06	0	Drum- 0.75
1/11/2022	16.98	17.19	0.21	0	drum-0.74
1/20/2022	16.72	16.84	0.12	0	Drum-0.74
1/27/2022	16.5	17.18	0.68	0	Drum- 0.75
2/1/2022	16.7	16.75	0.05	0	Drum-0.90
2/8/2022	16.45	16.48	0.03	0	Drum-0.95
2/18/2022	16.48	16.49	0.01	0	Drum-0.89
2/23/2022	16.4	16.45	0.05	0	Drum-0.92
3/4/2022	16.21	16.22	0.01	0	Drum- 0.87
3/10/2022	16.12	16.42	0.3	0	Drum-0.89
3/15/2022	15.95	16.19	0.24	0	Drum-0.88
3/22/2022	16.75	16.76	0.01	0	replaced pump housing
3/29/2022	16.08	16.09	0.01	0	Drum-1.13

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated 'drum 0.48 ft'. Total amount of Free Product Recovered = 13 gallons from pump

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.55	6.56	0.01	0	
2/9/2022	7.31	7.36	0.05	0	
3/10/2022	6.85	6.92	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/11/2022	11.58	11.65	0.07	0	
1/20/2022	11.48	11.58	0.1	0	
1/27/2022	11.13	11.35	0.22	0.25	
2/1/2022	11.41	11.44	0.03	0	
2/8/2022	11.3	11.32	0.02	0	
2/9/2022	11.16	11.18	0.02	0	
2/18/2022	11.19	11.21	0.02	0	
2/23/2022	11.08	11.09	0.01	0	
3/4/2022	11	11.01	0.01	0	
3/10/2022	10.72	10.73	0.01	0	
3/15/2022	10.58	10.59	0.01	0	
3/22/2022	10.58	10.59	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	14.06	14.22	0.16	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	10.71	10.72	0.01	0	
1/11/2022	10.89	10.94	0.05	0	
1/20/2022	10.80	10.86	0.06	0	
1/27/2022	10.82	10.83	0.01	0	
2/1/2022	11.00	11.01	0.01	0	
2/8/2022	10.8	10.81	0.01	0	
2/9/2022	10.8	10.81	0.01	0	
2/18/2022	10.38	10.39	0.01	0	
2/23/2022	10.25	10.26	0.01	0	
3/4/2022	10.08	10.09	0.01	0	
3/10/2022	9.79	9.8	0.01	0	
3/15/2022	10.05	10.06	0.01	0	
3/22/2022	9.65	9.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	13.35	13.81	0.46	0	
1/11/2022	13.39	13.75	0.36	0	
1/20/2022	13.36	13.72	0.36	0	
1/27/2022	13.06	13.74	0.68	0.88	
2/1/2022	13.42	14.02	0.6	0.75	
2/8/2022	13.26	14.05	0.79	1.06	
2/18/2022	13.21	13.75	0.54	0.63	
2/23/2022	13.08	13.2	0.12	0	
3/4/2022	13.08	13.62	0.54	0.75	
3/10/2022	12.69	13.12	0.43	0	
3/15/2022	12.58	13.24	0.66	0.75	
3/22/2022	12.59	13.05	0.46	0.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	10.35	10.39	0.04	0	
1/11/2022	10.42	10.76	0.34	0	
1/20/2022	10.4	10.75	0.35	0	
1/27/2022	10.2	11.09	0.89	1.25	
2/1/2022	10.45	10.81	0.36	1	
2/8/2022	10.25	10.7	0.45	0.5	
2/9/2022	9.86	9.98	0.12	0	
2/18/2022	9.93	10.55	0.62	2.5	
2/23/2022	9.81	10.15	0.34	0.38	
3/4/2022	9.65	9.71	0.06	0	
3/10/2022	9.84	10	0.16	0	
3/15/2022	9.27	9.68	0.41	0.5	
3/22/2022	9.28	9.61	0.33	0.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	14.4	14.85	0.45	0	
1/11/2022	13.12	13.53	0.41	0	
1/20/2022	14.01	14.45	0.44	0	
1/27/2022	14.08	14.82	0.74	1	
2/1/2022	14.25	14.83	0.58	0.63	
2/8/2022	14.31	14.89	0.58	0.63	
2/18/2022	10.55	9.93	-0.62	0.63	
2/23/2022	14.09	14.71	0.62	0.75	
3/4/2022	14.08	14.25	0.17	0	
3/10/2022	13.78	14.05	0.27	0	
3/15/2022	13.78	13.93	0.15	0	
3/22/2022	13.63	13.74	0.11	0	
3/29/2022	13.73	13.84	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	10.51	10.95	0.44	0	
1/11/2022	10.69	10.78	0.09	0	
1/20/2022	10.58	10.68	0.1	0	
1/27/2022	10.43	11.29	0.86	1	
2/1/2022	10.64	11.12	0.48	0.75	
2/8/2022	10.45	11.2	0.75	0.88	
2/18/2022	10.55	10.71	0.16	0	
2/23/2022	10.45	10.9	0.45	0.63	
3/4/2022	10.32	10.51	0.19	0	
3/10/2022	10.02	10.64	0.62	0	
3/15/2022	9.88	10.72	0.84	1.25	
3/22/2022	9.88	10.55	0.67	0.5	
3/29/2022	9.88	10.48	0.6	0.75	

Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	13.02	13.21	0.19	0	
1/11/2022	13.12	13.15	0.03	0	
1/20/2022	13.10	13.13	0.03	0	
1/27/2022	12.85	13.18	0.33	0.25	
2/1/2022	13.03	13.04	0.01	0	
2/8/2022	12.85	12.95	0.1	0	
2/18/2022	12.81	12.95	0.14	0	
2/23/2022	12.61	12.66	0.05	0	
3/4/2022	12.52	12.69	0.17	0	
3/10/2022	12.52	12.64	0.12	0	
3/15/2022	12.14	12.55	0.41	0.5	
3/22/2022	12.11	12.35	0.24	0.5	
3/29/2022	12.09	12.18	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.85	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	-	13.65	0	0	
2/9/2022	13.51	13.52	0.01	0	
3/10/2022	13.28	13.29	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13.20	13.21	0.01	0	
2/9/2022	13.04	13.05	0.01	0	
3/10/2022	12.85	12.91	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	6.28	6.55	0.27	0	
1/11/2022	6.3	6.66	0.36	0	
1/20/2022	6.31	6.68	0.37	0	
1/27/2022	6.05	6.06	0.01	0	
2/1/2022	6.56	6.65	0.09	0	
2/8/2022	6.19	6.35	0.16	0	
2/18/2022	6.11	6.12	0.01	0	
2/23/2022	5.88	5.89	0.01	0	
3/4/2022	5.62	5.64	0.02	0	
3/10/2022	5.23	5.24	0.01	0	
3/15/2022	5.18	5.21	0.03	0	
3/22/2022	5.15	5.18	0.03	0	
3/29/2022	5.11	5.16	0.05	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/4/2022	14.78	14.79	0.01	0	Drum-1.58
1/11/2022	14.95	14.96	0.01	0	drum-1.71
1/20/2022	14.85	14.86	0.01	0	Drum-1.73
1/27/2022	14.75	14.76	0.01	0	Drum- 2.01
2/1/2022	14.85	14.87	0.02	0	Drum-2.21
2/8/2022	15.00	15.01	0.01	0	Drum- 2.3 (swapped to new drum)
2/14/2022	10.71	10.72	0.01	0	
2/18/2022	14.79	14.81	0.02	0	Drum-0.19
2/23/2022	14.75	14.76	0.01	0	Drum-0.32
3/4/2022	14.61	14.62	0.01	0	Drum-0.31
3/10/2022	14.43	14.44	0.01	0	Drum-0.35
3/15/2022	14.28	14.29	0.01	0	Drum-0.37
3/18/2022	16.12	16.13	0.01	0	
3/22/2022	14.33	14.34	0.01	0	Drum-0.35
3/29/2022	14.22	14.23	0.01	0	Drum-0.38

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated 'drum 0.28 ft'. Total amount of Free Product Recovered = 52 gallons.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	6.19	6.2	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	9.1	9.58	0.48	0	
1/11/2022	9.15	9.57	0.42	0	
1/20/2022	9.12	9.55	0.43	0	
1/27/2022	9.05	10.16	1.11	1	
2/1/2022	9.25	9.72	0.47	0.63	
2/8/2022	9.71	9.85	0.14	0	
2/18/2022	9.21	9.8	0.59	0.75	
2/23/2022	9.12	9.3	0.18	0	
3/4/2022	8.96	9.75	0.79	1	
3/10/2022	8.83	8.99	0.16	0	
3/15/2022	8.65	9.05	0.4	1	
3/22/2022	8.78	8.79	0.01	0	
3/29/2022	8.65	8.74	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	6.29	6.3	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.11	6.12	0.01	0	
2/9/2022	5.80	5.81	0.01	0	
3/10/2022	6.92	6.93	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.22	6.23	0.01	0	
2/9/2022	5.80	5.81	0.01	0	
3/10/2022	7.70	7.71	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	7.55	7.71	0.16	0	
2/9/2022	6.05	6.06	0.01	0	
3/10/2022	7.98	7.99	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	10.65	10.71	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	11.12	11.21	0.09	0	
2/9/2022	-	11.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	8.33	0	0	0
1/11/2022	8.31	8.32	0.01	0	0
1/20/2022	8.34	8.35	0.01	0	0
1/27/2022	8.6	8.61	0.01	0	0
2/1/2022	-	8.34	0	0	0
2/8/2022	8.12	8.13	0.01	0	0
2/18/2022	8.24	8.25	0.01	0	0
2/23/2022	8.16	8.17	0.01	0	0
3/4/2022	7.94	7.95	0.01	0	0
3/10/2022	7.91	7.92	0.01	0	0
3/15/2022	7.65	7.66	0.01	0	0
3/22/2022	-	7.64	0	0	0
3/29/2022	7.58	7.59	0.01	0	0

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	8.23	8.45	0.22	0	
1/11/2022	8.29	8.64	0.35	0	
1/20/2022	8.25	8.61	0.36	0	
1/27/2022	8.18	8.55	0.37	0.06	8.30/8.30.5
2/1/2022	8.34	8.85	0.51	0.06	
2/8/2022	8.21	8.81	0.6	0.06	
2/18/2022	8.22	8.44	0.22	0	
2/23/2022	8.15	8.51	0.36	0.06	
3/4/2022	7.98	8.25	0.27	0	
3/10/2022	7.01	7.89	0.88	0	
3/15/2022	7.64	7.75	0.11	0	
3/22/2022	7.62	7.66	0.04	0	
3/29/2022	7.6	7.65	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	7.68	0	0	
1/11/2022	-	7.9	0	0	
1/20/2022	-	7.82	0	0	
1/27/2022	-	7.75	0	0	
2/1/2022	-	8.03	0	0	
2/8/2022	-	7.75	0	0	
2/18/2022	-	7.98	0	0	
2/23/2022	-	7.74	0	0	
3/4/2022	-	7.34	0	0	
3/10/2022	-	7.16	0	0	
3/15/2022	-	7.04	0	0	
3/22/2022	-	6.91	0	0	
3/29/2022	-	7.05	0	0	

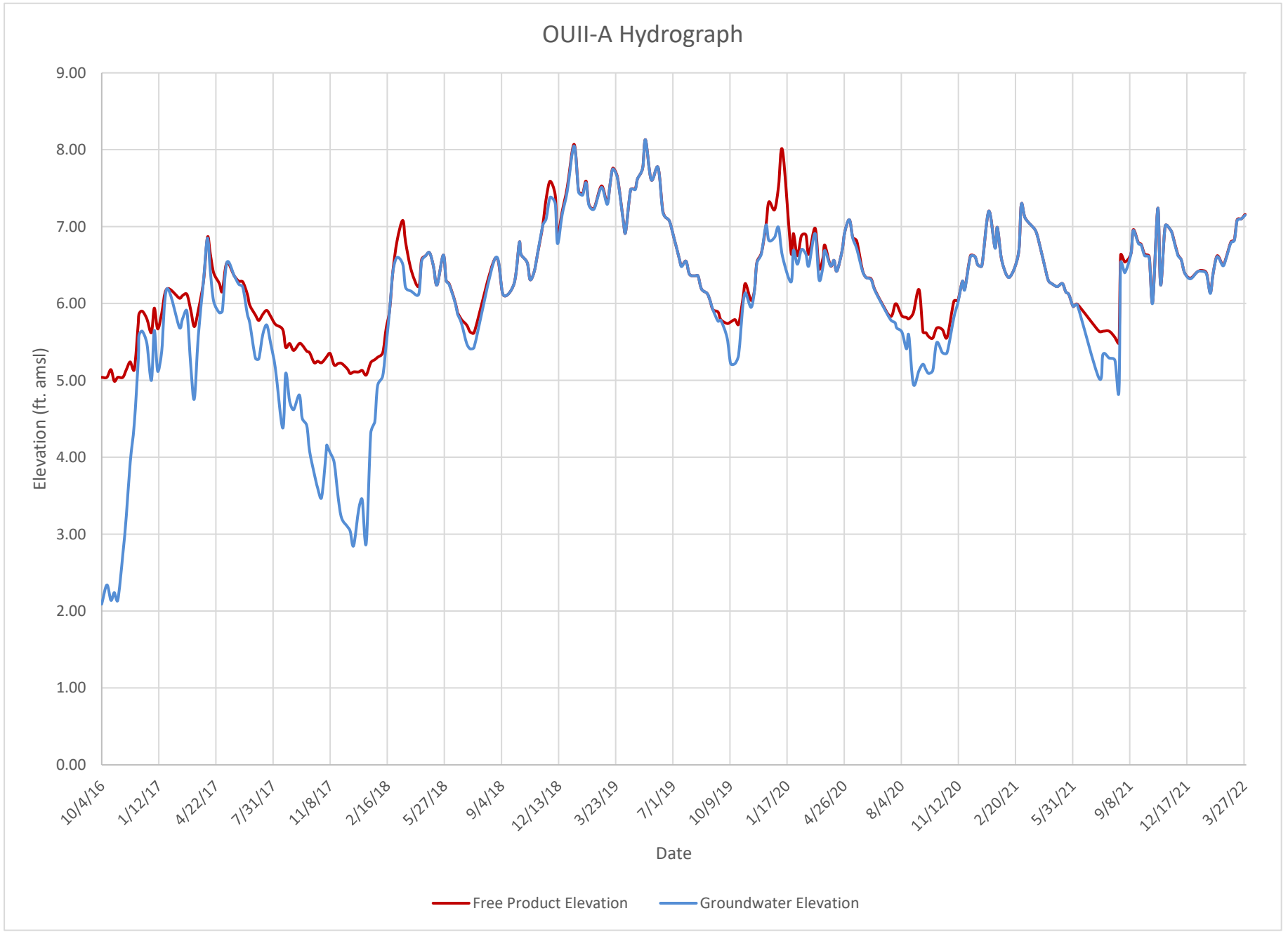
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**		**Comments**
1/4/2022	8.28	8.41	0.13	0	
1/11/2022	8.36	8.41	0.05	0	
1/20/2022	8.32	8.4	0.08	0	
1/27/2022	-	8.26	0	0	
2/1/2022	8.65	8.68	0.03	0	
2/8/2022	-	7.68	0	0	
2/18/2022	-	7.39	0	0	
2/23/2022	-	7.24	0	0	
3/4/2022	-	7.13	0	0	
3/10/2022	-	6.96	0	0	
3/15/2022	-	6.74	0	0	
3/22/2022	-	6.74	0	0	
3/29/2022	-	6.74	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	8.38	0	0	
1/11/2022	-	8.34	0	0	
1/20/2022	-	8.35	0	0	
1/27/2022	-	8.29	0	0	
2/1/2022	-	8.45	0	0	
2/8/2022	-	8.31	0	0	
2/18/2022	-	8.37	0	0	
2/23/2022	-	8.29	0	0	
3/4/2022	-	8.28	0	0	
3/10/2022	-	8.24	0	0	
3/15/2022	-	7.81	0	0	
3/22/2022	-	7.93	0	0	
3/29/2022	-	7.86	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	5.35	0	0	
1/11/2022	-	5.51	0	0	
1/20/2022	-	5.4	0	0	
1/27/2022	-	5.3	0	0	
2/1/2022	-	5.7	0	0	
2/8/2022	-	5.06	0	0	
2/18/2022	-	5.42	0	0	
2/23/2022	-	5.07	0	0	
3/4/2022	-	4.84	0	0	
3/10/2022	-	4.71	0	0	
3/15/2022	-	4.48	0	0	
3/22/2022	-	4.32	0	0	
3/29/2022	4.38	4.39	0.01	0	

ATTACHMENT B

Off-Site Monitoring Well Hydrographs


OUII-A Hydrograph
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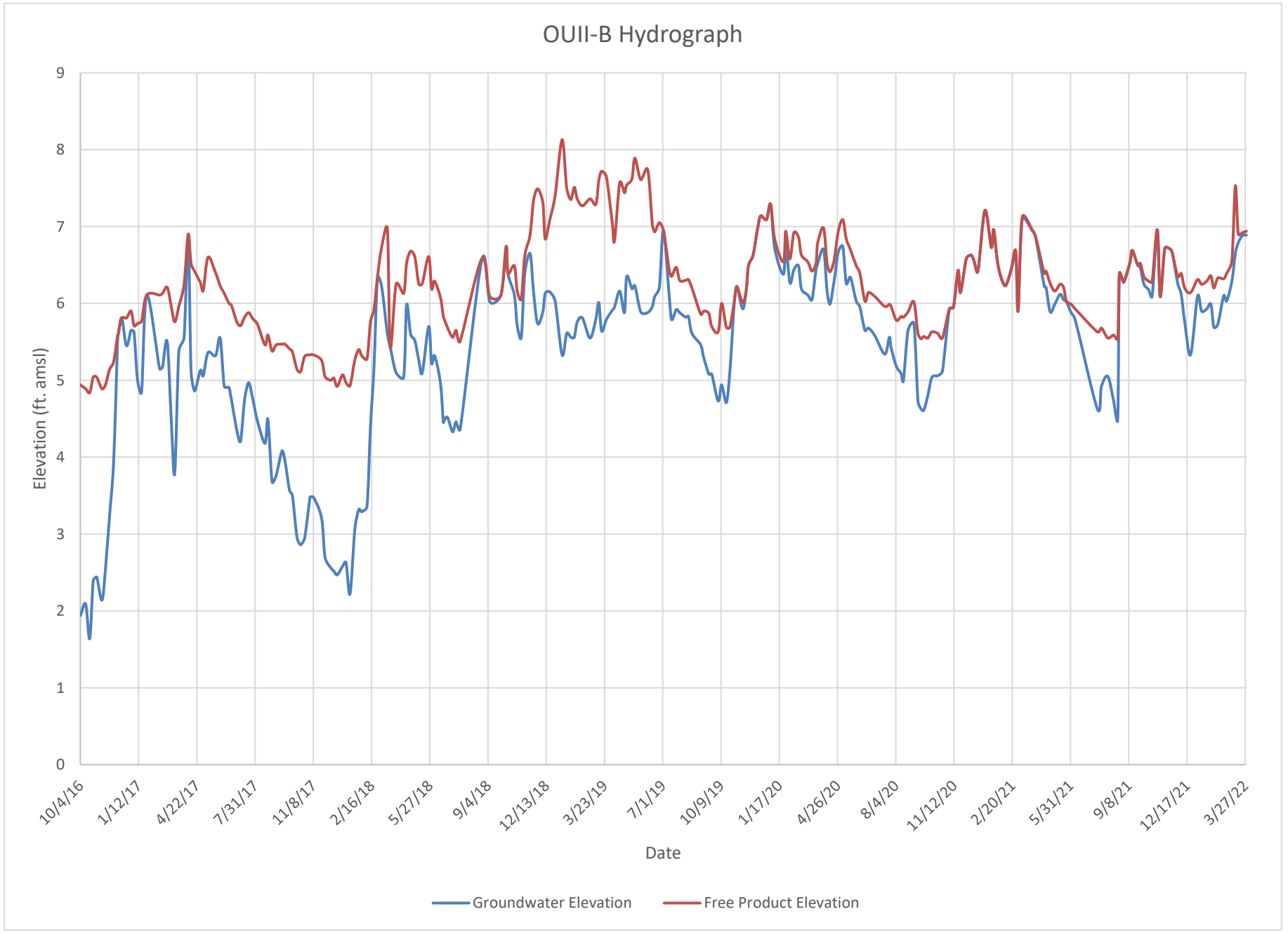
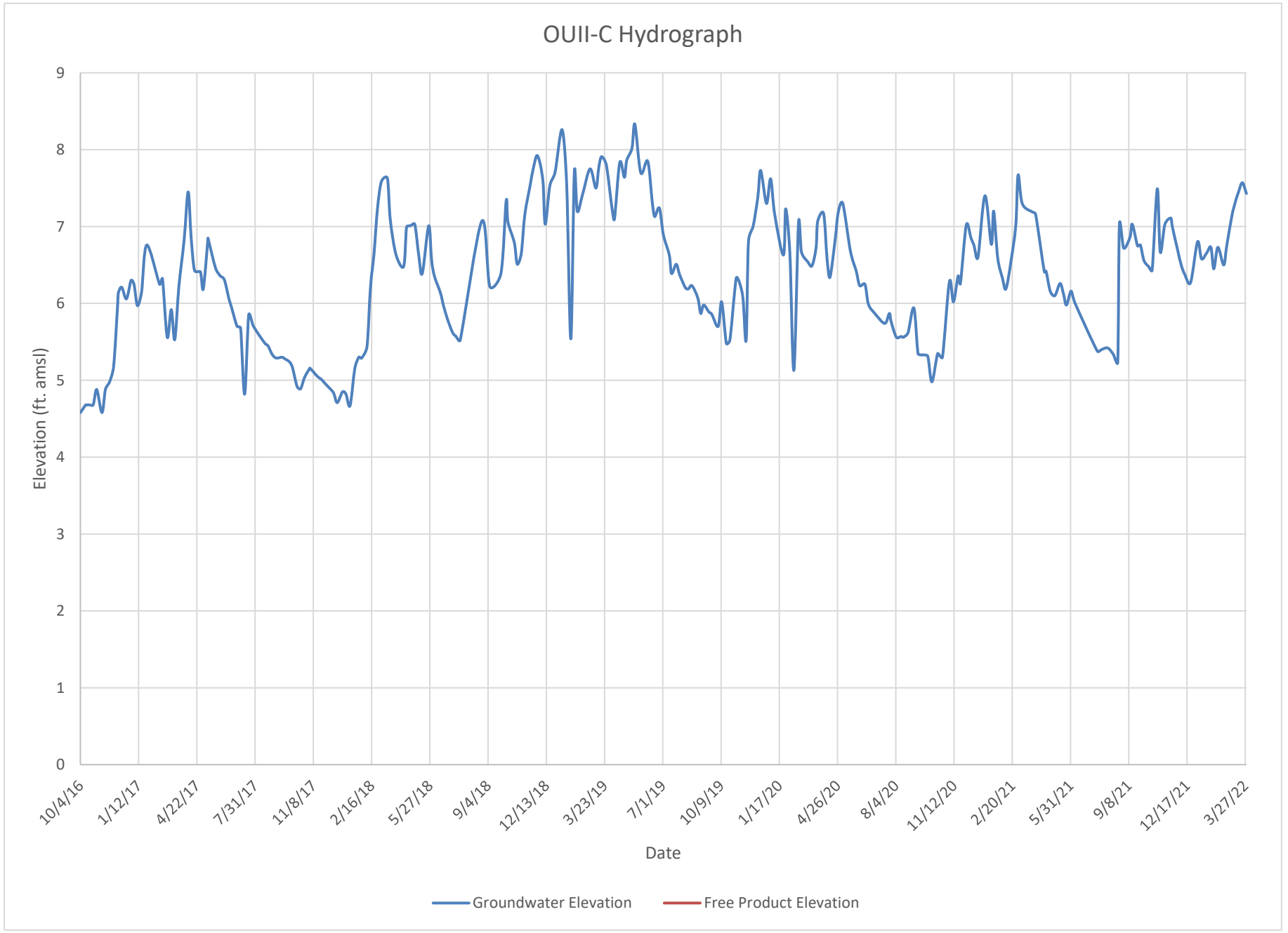
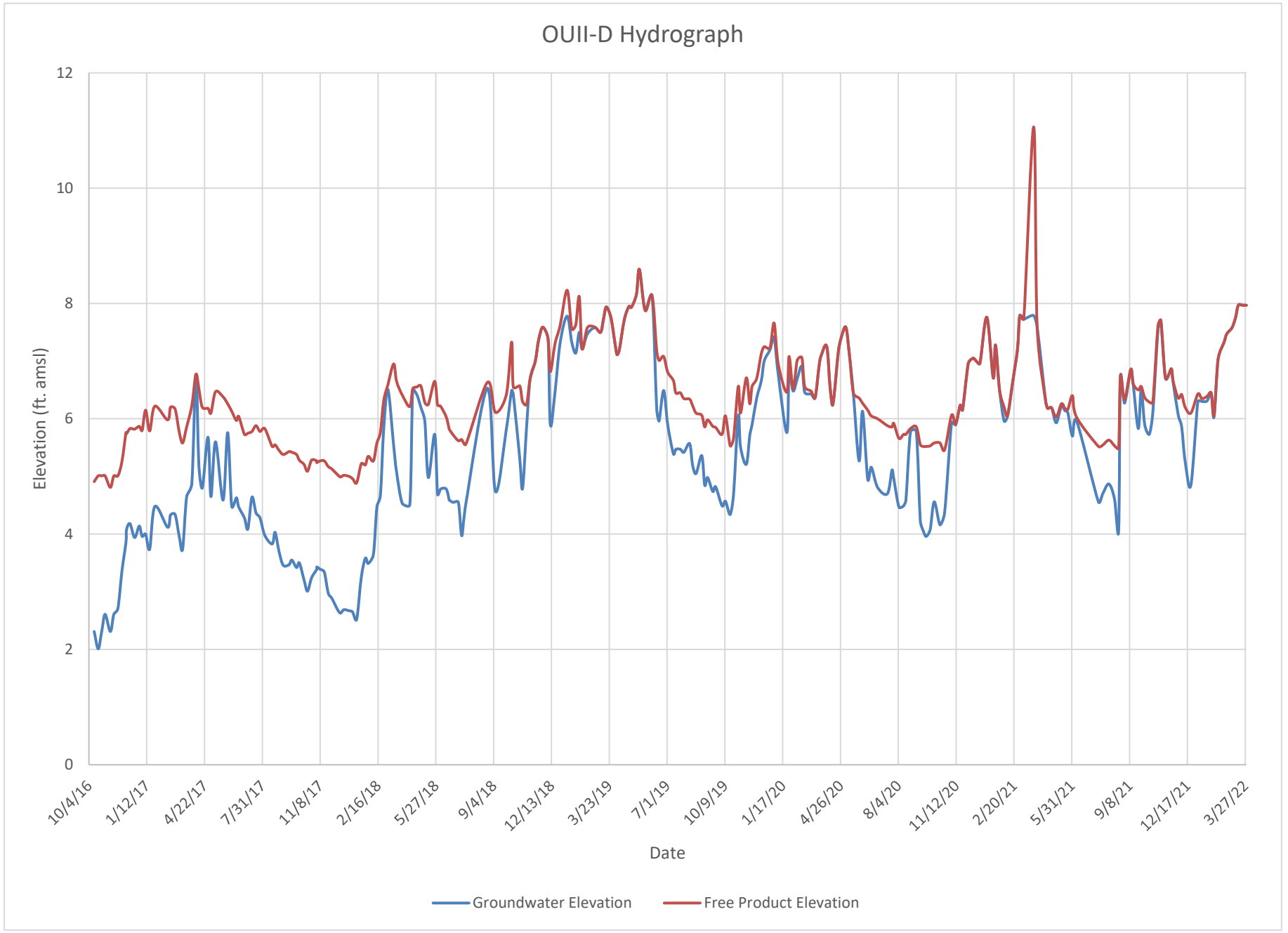
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
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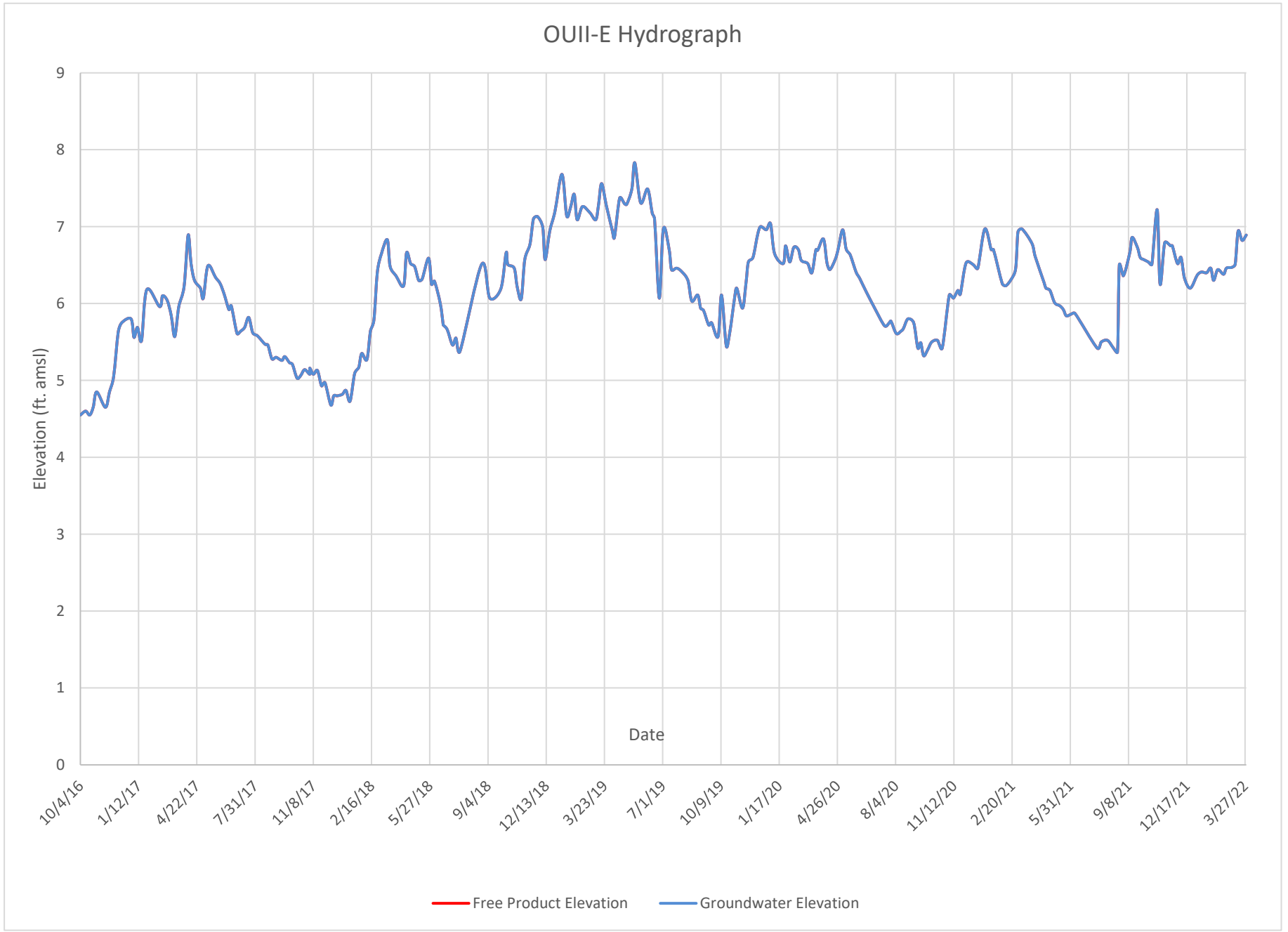
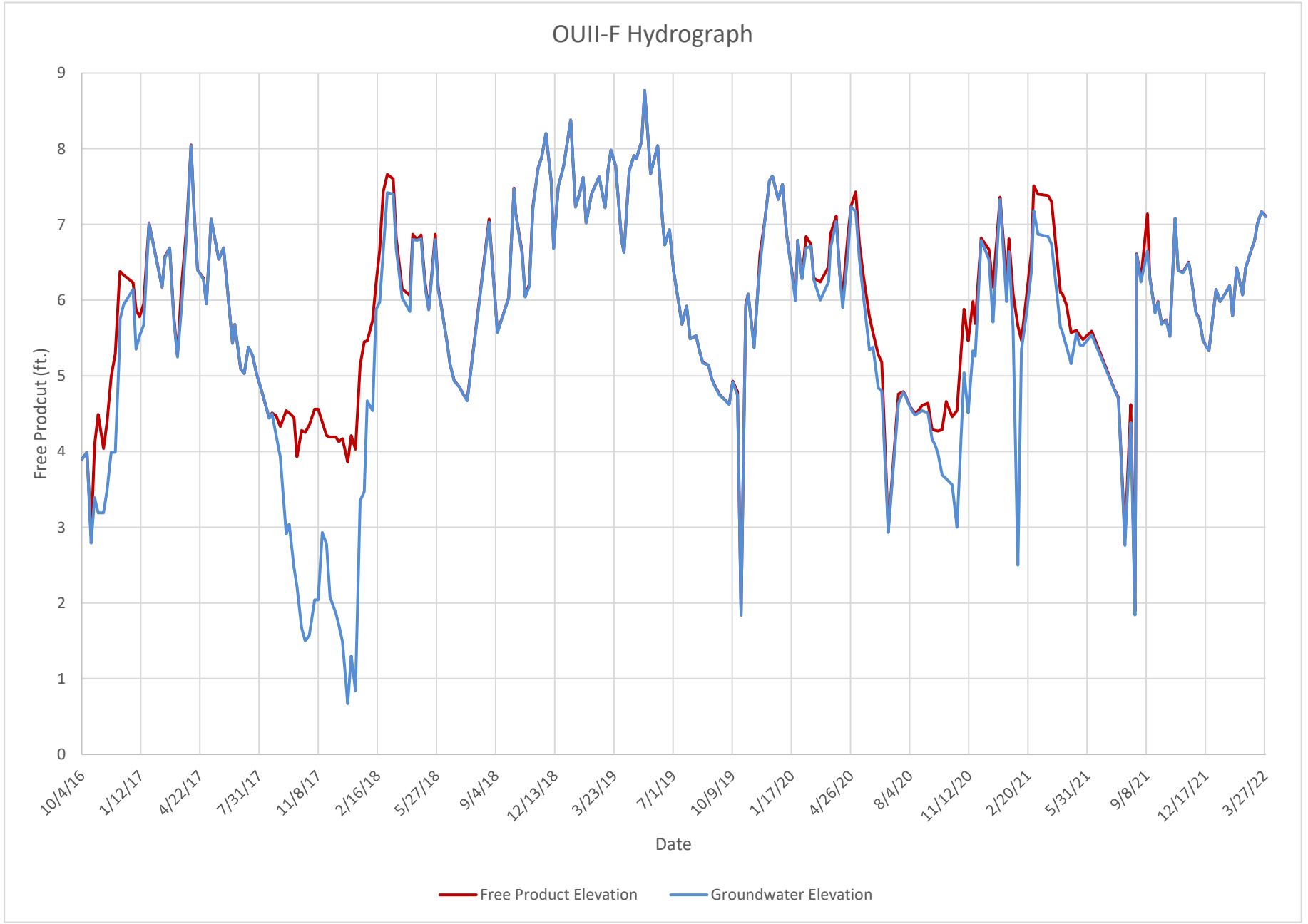
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Free Product Elevation
Groundwater Elevation

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: APRIL 1, 2022 THROUGH JUNE 30, 2022

HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between April 1, 2022 and June 30, 2022 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Metro-North Railroad (MNR) received a letter titled "2020 Site Management Plan Status Reports" from the New York State Department of Environmental Conservation (NYSDEC), dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address other comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. Comments were received from the NYSDEC regarding the Corrective Measures Work Plan on March 8, 2022. A response was provided to the NYSDEC on April 19, 2022.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the results of this monitoring, are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured in May 2022 (i.e., May 13, 2022 to May 26, 2022) is included as Figure 1. As shown on Figure 1, groundwater flow generally is to the north. There are apparent localized sinks and mounds, potentially due to other factors such as the possible plugging of the well screens (e. g., V-1, VE4-11, FA4-17, FA4-15, FA4-13, etc.). [Note: An updated elevation survey was completed on July 12, 2022. The revised elevation survey measurements will be incorporated into groundwater contour figures presented in future status reports.]

FREE PRODUCT REMOVAL RECORDS: During the report period, Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product) were used to remove free product in wells RW-1, FA4-8, and AI2-3; and a bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ was formerly located in well FA4-17. However, it was removed during a previous report period and a portable Spill Buddy™ was used to remove free product from this well during the current report period.]

A Spill Buster™ was installed in well AI2-3 in November 2016, and subsequent to its installation approximately 128 gallons of free product was removed in 2016, approximately 301 gallons of free product was removed in 2017, approximately 120 gallons of free product was removed in 2018, and approximately 116 gallons of free product was removed in 2019 from this well. Between January 1, 2020 through September 30, 2020, approximately 8.2 gallons of free product was removed from well AI2-3. However, between October 1, 2020 and June 30, 2021, no free product was removed from well AI2-3. Between July 1, 2021 and September 30, 2021, approximately 47.4 gallons of free product was removed from well AI2-3; between October 1, 2021 and December 31, 2021, approximately 2.6 gallons of free product was removed from well AI2-3; between January 1, 2022 and March 31, 2022, approximately 26.8 gallons of free product was removed from well AI2-3; and, between April 1, 2022 and June 30, 2022, approximately 1 gallon of free product was removed from well AI2-3. The reason for the varying/decreasing amounts of free product removed from well AI2-3 is not known.

The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and March 31, 2022) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between April 1, 2022 and June 30, 2022) and the preceding report period (i.e., between January 1, 2022 and March 31, 2022) is included as Figure 2. The total amount of free product removed in the current reporting period (i.e., between April 1, 2022 and June 30, 2022) was approximately 44 gallons. The majority of the free product was removed from OU-II-L4 (i.e., approximately 39.42 gallons). The total amount of free product removed in the previous reporting period (i.e., between January 1, 2022 and March 30, 2022) was approximately 126 gallons. Since January 1, 2013, approximately 4,720 gallons of free product or approximately 118 gallons has been removed per reporting period (i.e., every three months).

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected from full 55-gallon drums during the current report period, and. drums were not removed from the Site for off-site disposal.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2021 (the most recent sampling event) is included in the tables listed below for reference purposes.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);

- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is scheduled to be completed in August 2022. During this event, samples are scheduled to be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples are scheduled to be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.]

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during this report period for these wells are provided in Attachment A. As shown, during the weekly monitoring completed during the report period, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F. [Note: The amount of free product detected in off-site monitoring well OUII-A was limited (i.e., thicknesses of 0.03 ft. or less).] Free product was not detected in wells OUII-C or OUII-E. Table 8 shows the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date and Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the average amount of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected appears to decrease when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on May 19, 2022 by MNR.

During the May 19, 2022 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on May 19, 2022 was included in the status report completed for the previous report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between July 1, 2022 and September 30, 2022), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a previously installed Spill Buster™ is functional in a well, but that limited free product remains in that location, the Spill Buster™ will be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5). Free product remaining in the well where the Spill Buster™ was removed should be collected using a portable Spill Buddy™. Free product detected in wells not containing a Spill Buster™ system should be removed using a portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted Well AI2-3 should be evaluated and/or cleaned/developed if necessary.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

As shown on Figure 1, based on the static water levels measured during this report period groundwater elevations in some wells were variable and inconsistent with nearby wells. [Note: An updated elevation survey was completed on July 12, 2022. The revised elevation survey measurements will be incorporated into upcoming groundwater contour figures. In addition, select monitoring wells may be redeveloped and evaluated to assess if they are functioning properly. If necessary, monitoring wells deemed to not be functioning properly, and not capable of being repaired, will be abandoned and may be replaced.]

The next OU-I/OU-II inspection is due on or about October 31, 2022. The next groundwater sampling and testing will be completed on, or about, August 31. 2022. A SMP status report for the work completed during the upcoming period (i.e., July 1, 2022 through September 30, 2022) will be submitted in October 2022.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If additional comments are received from the NYSDEC on the *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 during the upcoming period, the work plan should be revised, if appropriate, and the work described in the work plan should be initiated.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: April 1, 2022 through June 30, 2022
Table 2: Historic Free Product Removal Totals: December 1, 2012 through March 31, 2021
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: May 2022
Figure 2: Summary of Free Product Removal for the Report Periods April 1, 2022 – June 30, 2022 and January 1, 2022 – March 31, 2022
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: April 1, 2022 through June 30, 2022
Attachment B: Off-Site Monitoring Well Hydrographs

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: April 1, 2022 through June 30, 2022

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	2.06
Total	**2.06**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	1.25
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**1.25**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	1.0
VE2-1	0
Total	**1**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	6.4
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	4.38
FA4-15	1.25
FA4-16	0.88
FA4-17	5.39
FA4-18	2.76
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0.25
RW-1*	16.8
VE4-1	0
VE4-5	1.31
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**39.42**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - March 31, 2022

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	159.87
Total	**189.365**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	20.24
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**30.232**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3	948.03
VE2-1	0
Total	**949.66**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	577.66
FA4-9	3.48
FA4-10	0.13
FA4-11	143.77
FA4-12	10.92
FA4-13	101.8
FA4-14	269.01
FA4-15	78.47
FA4-16	70.23
FA4-17	76.82
FA4-18	109.75
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	22.58
RW-1*	1701
VE4-1	0
VE4-5	214.2
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	4.93
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3402.13**

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																		
		VE 1-2												VE 1-4												VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																		
		VE 3-1												VE 4-11												DAY 1											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/2019	6/3/2020	8/26/2021
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	0.41 J
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																	
		Field Blank									Trip Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 1-2												VE 1-4												VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	NT	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.40]	ND [1.90]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 3-1												VE 4-11																							
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	8/24/2021										
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]									
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]									
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]									
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.30]										
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**									
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]									
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**									
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]									
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**									
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**									
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]									
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]									
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]									
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**									
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]									
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]									
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50]	ND [1.40]	9.30	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [1.40]	ND [1.90]									

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																				
		DAY 1												Field Blank								
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.90]	

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location																																					
		VE 1-2												VE 1-4												VE 2-1													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date											
		VE 3-1											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																							
		VE 4-11																							
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21											
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]											
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]											
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]											
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]											
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]											
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]											
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]											
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]											
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]											
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND											

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date											
		DAY 1											
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date							
		Field Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date										
		OUII-A	OUII-C	OUII-D	OUII-E	OUII-F	FA4-9	FA4-11	FA4-16	PGW-2	VE4-7	VE4-9
		8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/26/21	8/24/21	8/24/21	8/24/21	8/25/21	8/24/21
Aroclor 1016	NS	ND [0.13]	ND [0.13]	ND [0.91]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.41]	ND [0.13]	ND [0.13]
Aroclor 1221	NS	ND [0.14]	ND [0.14]	ND [0.99]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.45]	ND [0.14]	ND [0.14]
Aroclor 1232	NS	ND [0.17]	ND [0.17]	ND [1.20]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.54]	ND [0.17]	ND [0.17]
Aroclor 1242	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1248	NS	ND [0.12]	ND [0.12]	ND [0.87]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.39]	ND [0.12]	ND [0.12]
Aroclor 1254	NS	14.7 D	ND [0.12]	8.30 P	ND [0.12]	2.00 P	ND [0.12]	0.89 P	10	2.1	0.35 JP	ND [0.12]
Aroclor 1260	NS	ND [0.11]	ND [0.11]	ND [0.76]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.34]	ND [0.11]	ND [0.11]
Aroclor 1262	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1268	NS	ND [0.16]	ND [0.16]	ND [1.20]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.53]	ND [0.16]	ND [0.16]
Total PCBs	0.09	14.7	ND	8.3	ND	2	ND	0.89	10	2.1	ND	ND

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Estimated Value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 1-2											VE 1-4											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 2-1												VE 3-1										
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																						
		VE 4-11												DAY 1										
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Guidance Values[1]	Test Location and Sample Date														
		VE 1-2	VE 1-4						VE 2-1							
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19
Perfluorooctanoic acid (PFOA)	10	5.2	**29**	**50**	**51.3**	15	44	43	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	**23**
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	24	3.4	5.4	ND [10]	ND [10]	11	14	41
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-
Perfluorooctanesulfonic acid (PFOS)	10	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	62.7	16	21	42.9	38.2	60.4	66.9	104
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	24	3.4	5.4	0	0	11	14	248.21
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date												
		VE 3-1	VE 4-11					DAY 1	Field Blank					Equipment Blank
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/2/17	2017	2018	FB91119	FB6420	FB-082621	EB-082621
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanoic acid (PFOA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanesulfonic acid (PFOS)	10	**14**	7.2	4.2	ND [10]	5.2	6.1 I	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [1.7]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.42]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	2.0 J B
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [0.85]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [0.51]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
PFOA & PFOS		19.6	7.2	4.2	-	-	7.5	34	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)		3.3	39	15	10.5	6.8	184.91	5.4	ND	ND	ND	ND	1.7	1.7
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	46.8	ND	ND	ND	ND	1.7	1.7
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	NT	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.

2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- VE 4-6 (8.41 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 2022
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	08-2022
DRAWN BY	CPS
DATE DRAWN	08-2022
SCALE	As Noted
DATE ISSUED	08-04-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

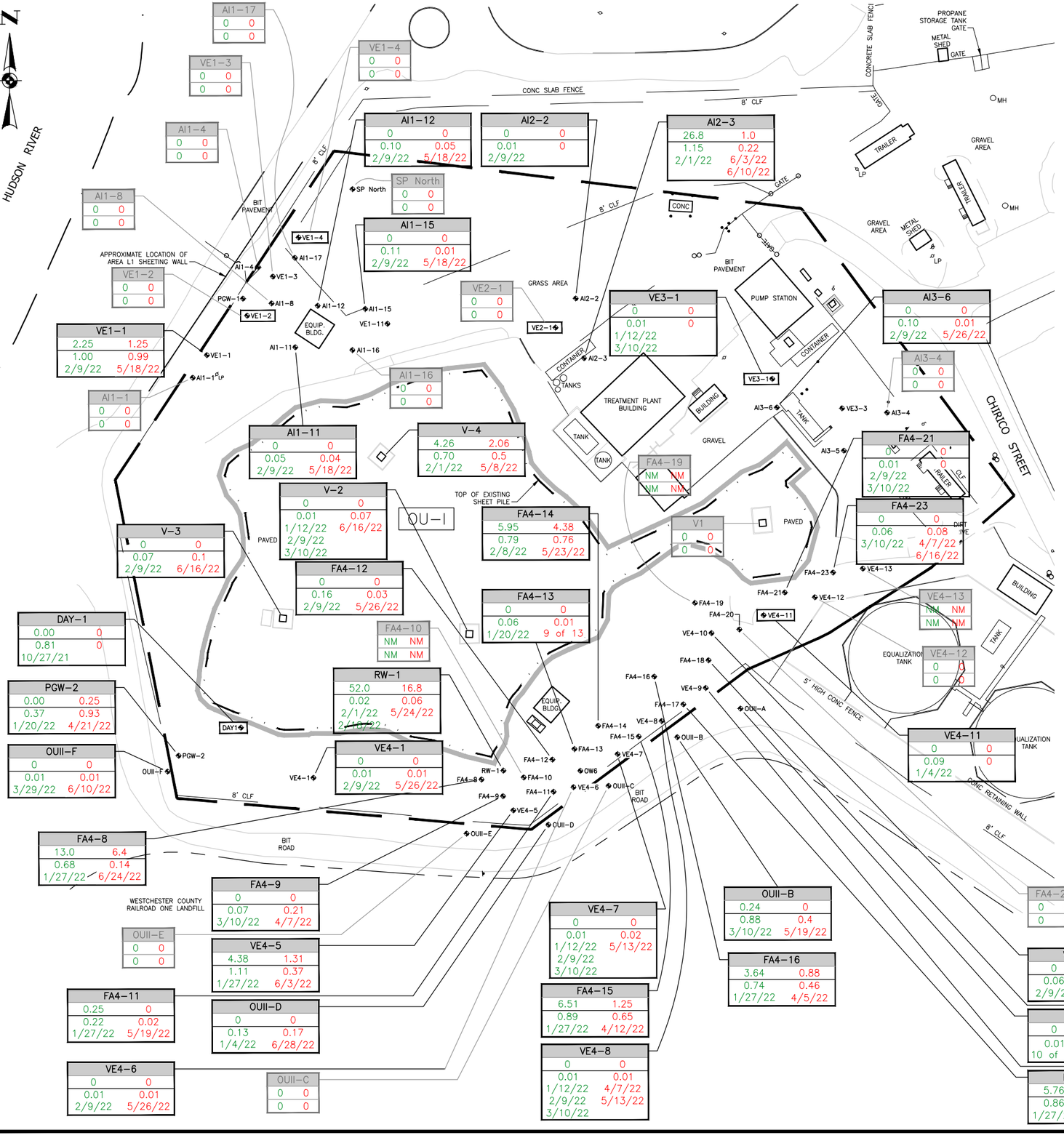
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: May 2022

Project No.
22-3636M

FIGURE 1



Ref1:
Ref2:
Ref3:

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Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Monday, July 25, 2022 3:51:25 PM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period Apr-June 2022.dwg

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- VE1-3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1-2 — Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- V-1 — OU-I Contingency Vapor Extraction System Wells
- FA4-14 / 5.95 4.38 / 0.79 0.76 / 2/8/22 5/23/22 — Long-Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period January 1, 2022 Through March 31, 2022 Shown In Green (Left)

Measurements Made During The Report Period April 1, 2022 Through June 30, 2022 Shown In Red (Right)

NM — Well Not Measured

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	7/2022
DATE DRAWN	7/25/2022
DATE ISSUED	7/25/2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

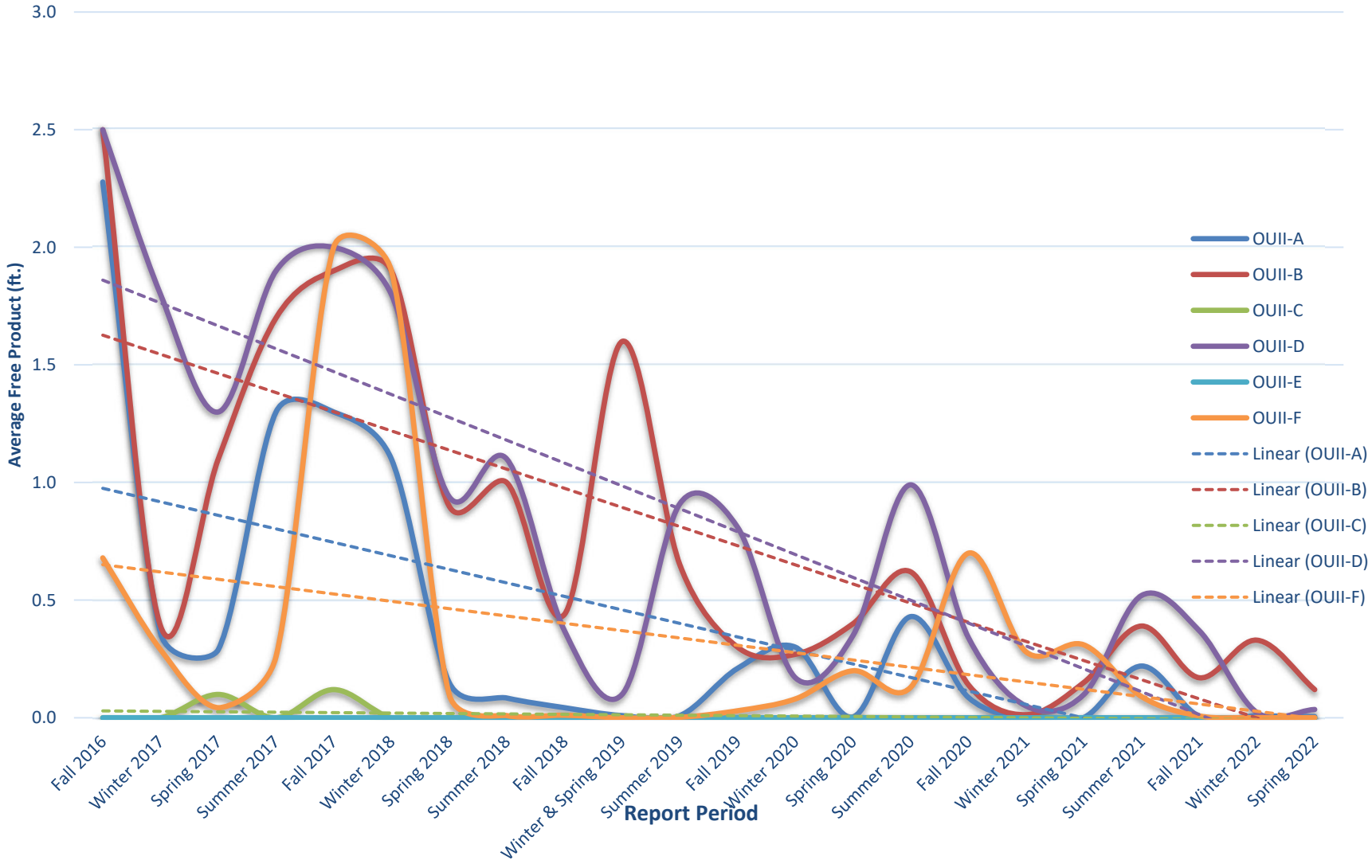
PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods January - March 2022 and April - June 2022

PROJECT NO.
22-3652M

FIGURE 2

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
April 1, 2022 through June 30, 2022

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	12.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.74	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.24	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	1.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured; well blocked					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.32	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	12.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	12.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	12.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	-	12.55	0	0	
5/13/2022	-	12.22	0	0	
6/16/2022	-	12.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	13	13.02	0.02	0	
5/13/2022	12.48	12.49	0.01	0	
6/16/2022	12.45	12.52	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	12.55	12.56	0.01	0	
5/13/2022	12.05	12.06	0.01	0	
6/16/2022	12.05	12.15	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	11.89	12.07	0.18	0	
4/12/2022	11.29	11.33	0.04	0	
4/21/2022	11.19	11.35	0.16	0	
4/29/2022	11.12	11.29	0.17	0	
5/8/2022	11.35	11.85	0.5	0.56	
5/13/2022	11.3	11.48	0.18	0	
5/19/2022	11.38	11.61	0.23	0.75	
5/23/2022	11.71	11.89	0.18	0	
6/3/2022	11.45	11.79	0.34	0.5	
6/10/2022	11.37	11.55	0.18	0	
6/16/2022	11.4	11.55	0.15	0	
6/24/2022	11.4	11.5	0.1	0	
6/28/2022	11.55	11.88	0.33	0.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	10.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	10.11	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	13.65	13.69	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	17.85	17.9	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	18.28	18.29	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	13.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	11.92	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	-	8.99	0	0	
4/12/2022	-	8.33	0	0	
4/21/2022	-	8.37	0	0	
4/29/2022	-	8.25	0	0	
5/8/2022	-	9.21	0	0	
5/13/2022	-	8.44	0	0	
5/19/2022	-	8.63	0	0	
5/23/2022	-	8.71	0	0	
6/3/2022	-	8.35	0	0	
6/10/2022	-	8.87	0	0	
6/16/2022	-	8.61	0	0	
6/24/2022	-	8.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	6.64	7.63	0.99	1.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	7.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	6.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	8.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	8.54	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	10.88	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/5/2022	14.95	15.11	0.16	0	Drum-0.15
4/12/2022	14.55	14.6	0.05	0	Drum- 0.19
4/21/2022	14.55	14.72	0.17	0	Drum-0.15
4/29/2022	14.38	14.39	0.01	0	Drum-0.20
5/8/2022	14.78	14.85	0.07	0	Drum-0.20
5/13/2022	14.86	14.98	0.12	0	Drum-0.19
5/18/2022	14.99	15.11	0.12	0	
5/19/2022	14.99	15.11	0.12	0	Drum-0.18
5/23/2022	15.3	15.44	0.14	0	Drum-0.18
6/3/2022	14.79	15.01	0.22	0	Drum-0.19
6/10/2022	14.81	15.03	0.22	0	Drum-0.19
6/16/2022	14.88	15	0.12	0	Drum-0.19
6/24/2022	14.98	15.12	0.14	0	Drum-0.19
6/28/2022	16.05	16.1	0.05	0	Drum-0.21

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated '0.16 ft'. Approximately 1 gallon of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	10.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	-	13.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	16.5	16.51	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	13.71	13.72	0.01	0	
5/13/2022	-	8.38	0	0	
6/16/2022	-	8.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	-	15.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/5/2022	15.88	15.89	0.01	0	Drum-1.26
4/12/2022	15.12	15.13	0.01	0	Drum- 1.26
4/21/2022	15.12	15.13	0.01	0	Drum-1.25
4/29/2022	15.05	15.06	0.01	0	Drum-1.26
5/8/2022	15.95	15.96	0.01	0	Drum-1.25
5/13/2022	15.92	15.93	0.01	0	Drum-1.33
5/19/2022	16.22	16.23	0.01	0	Drum-1.36
5/23/2022	16.22	16.23	0.01	0	Drum-1.34
6/3/2022	15.94	15.95	0.01	0	Drum-1.41
6/10/2022	15.94	15.95	0.01	0	Drum-1.41
6/16/2022	16.17	16.18	0.01	0	Drum-1.41
6/24/2022	12.32	12.46	0.14	0	
6/28/2022	16.4	16.42	0.02	0	Drum-1.45

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated 'drum 1.13 ft'. Total amount of Free Product Recovered = 6.4 gallons from pump

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	6.25	6.46	0.21	0	
5/13/2022	6.79	6.83	0.04	0	
6/16/2022	7.05	7.21	0.16	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	10.24	10.25	0.01	0	
4/12/2022	9.83	9.84	0.01	0	
4/21/2022	9.82	9.83	0.01	0	
4/29/2022	9.68	9.69	0.01	0	
5/8/2022	10.5	10.51	0.01	0	
5/13/2022	10.49	10.5	0.01	0	
5/19/2022	10.79	10.81	0.02	0	
5/23/2022	10.88	10.89	0.01	0	
5/26/2022	10.95	10.96	0.01	0	
6/3/2022	10.19	10.2	0.01	0	
6/10/2022	10.43	10.44	0.01	0	
6/16/2022	10.65	10.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	13.88	13.91	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	9.28	9.29	0.01	0	
4/12/2022	0	8.89	0	0	
4/21/2022	8.98	8.99	0.01	0	
4/29/2022	8.85	8.86	0.01	0	
5/8/2022	9.65	9.66	0.01	0	
5/13/2022	9.72	9.73	0.01	0	
5/19/2022	10.05	10.06	0.01	0	
5/23/2022	10.15	10.16	0.01	0	
5/26/2022	10.19	10.2	0.01	0	
6/3/2022	0	9.6	0	0	
6/10/2022	9.76	9.77	0.01	0	
6/16/2022	0	9.95	0	0	
6/24/2022	0	10.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	12.34	12.99	0.65	0	
4/12/2022	12.03	12.05	0.02	0	
4/21/2022	11.92	11.95	0.03	0	
4/29/2022	11.9	11.92	0.02	0	
5/8/2022	12.42	13	0.58	0.5	
5/13/2022	12.86	12.94	0.08	0	
5/19/2022	12.69	13.3	0.61	0.5	
5/23/2022	12.75	13.51	0.76	0.75	
6/3/2022	12.34	13.08	0.74	0.88	
6/10/2022	12.49	13.08	0.59	1	
6/16/2022	12.65	13.08	0.43	0.75	
6/24/2022	12.88	13.03	0.15	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	9.01	9.17	0.16	0	
4/12/2022	8.5	9.15	0.65	1.25	
4/21/2022	8.51	8.55	0.04	0	
4/29/2022	8.45	8.5	0.05	0	
5/8/2022	9.15	9.33	0.18	0	
5/13/2022	9.23	9.38	0.15	0	
5/19/2022	9.51	9.58	0.07	0	
5/23/2022	9.61	9.62	0.01	0	
5/26/2022	9.61	9.62	0.01	0	
6/3/2022	9.11	9.22	0.11	0	
6/10/2022	9.28	9.35	0.07	0	
6/16/2022	9.45	9.48	0.03	0	
6/24/2022	9.62	9.63	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	13.42	13.88	0.46	0.38	
4/12/2022	12.92	13.22	0.3	0.5	
4/21/2022	12.91	13.06	0.15	0	
4/29/2022	12.75	12.81	0.06	0	
5/8/2022	13.39	13.46	0.07	0	
5/13/2022	13.48	13.53	0.05	0	
5/19/2022	10.08	10.25	0.17	0	
5/23/2022	15.81	15.91	0.1	0	
6/3/2022	13.53	13.59	0.06	0	
6/10/2022	13.58	13.69	0.11	0	
6/16/2022	13.72	13.84	0.12	0	
6/24/2022	13.96	13.99	0.03	0	
6/28/2022	14.16	14.21	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	9.62	10.48	0.86	0.63	
4/12/2022	9.14	10.08	0.94	1.13	
4/21/2022	9.09	9.76	0.67	1	
4/29/2022	9	9.03	0.03	0	
5/8/2022	9.76	10.13	0.37	0	
5/13/2022	9.83	10.15	0.32	0	
5/19/2022	13.78	13.81	0.03	0	
5/23/2022	10.14	10.51	0.37	0.75	
6/3/2022	9.79	10.31	0.52	0.88	
6/10/2022	9.91	10.28	0.37	1	
6/16/2022	10.05	10.22	0.17	0	
6/24/2022	10.24	10.29	0.05	0	
6/28/2022	10.32	10.49	0.17	0	

Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	11.86	12.02	0.16	0.63	
4/12/2022	11.36	11.46	0.1	0	
4/21/2022	11.38	11.45	0.07	0	
4/29/2022	11.35	11.45	0.1	0	
5/8/2022	11.82	12.58	0.76	1.25	
5/13/2022	11.98	12.11	0.13	0	
5/19/2022	12.47	12.52	0.05	0	
5/23/2022	12.25	12.81	0.56	0.5	
6/3/2022	11.96	12.09	0.13	0	
6/10/2022	12.01	12.18	0.17	0	
6/16/2022	12.14	12.32	0.18	0	
6/24/2022	16.21	16.23	0.02	0	dRUM-1.41
6/28/2022	12.65	13	0.35	0.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/18/2022	-	11.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	-	12.65	0	0	
5/13/2022	-	12.88	0	0	
6/16/2022	-	12.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	12.45	12.53	0.08	0	
5/13/2022	12.49	12.5	0.01	0	
6/16/2022	12.55	12.63	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	4.91	5.01	0.1	0	
4/12/2022	4.18	4.55	0.37	0	
4/21/2022	4.15	5.08	0.93	0.25	
4/29/2022	4.12	4.13	0.01	0	
5/8/2022	5.55	5.56	0.01	0	
5/13/2022	5.32	5.33	0.01	0	
5/19/2022	5.88	5.89	0.01	0	
5/23/2022	6.14	6.21	0.07	0	
6/3/2022	4.81	4.96	0.15	0	
6/10/2022	5.38	5.39	0.01	0	
6/16/2022	5.91	5.92	0.01	0	
6/24/2022	6.22	6.59	0.37	0	
6/28/2022	6.7	6.87	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/5/2022	14.08	14.09	0.01	0	Drum-0.37
4/12/2022	13.68	13.69	0.01	0	Drum-0.32
4/21/2022	13.71	13.72	0.01	0	
4/29/2022	13.65	13.66	0.01	0	Drum-0.38
5/8/2022	14.21	14.22	0.01	0	Drum-0.38
5/13/2022	14.12	14.13	0.01	0	
5/19/2022	14.36	14.39	0.03	0	Drum-0.48
5/23/2022	14.38	14.4	0.02	0	Drum-0.58
5/24/2022	9.93	9.99	0.06	0	
6/3/2022	14.12	14.13	0.01	0	Drum-0.8
6/10/2022	14.17	14.19	0.02	0	Drum-0.82
6/16/2022	14.35	14.36	0.01	0	Drum-0.92
6/24/2022	14.3	14.31	0.01	0	Drum-0.99
6/28/2022	14.42	14.62	0.2	0	Drum-1.22

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated 'drum 0.38 ft'. Total amount of Free Product Recovered = 16.8 gallons.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	6.22	6.23	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	8.55	8.73	0.18	0	
4/12/2022	8.13	8.24	0.11	0	
4/21/2022	8.11	8.47	0.36	0.81	
4/29/2022	8	8.12	0.12	0	
5/8/2022	8.64	8.69	0.05	0	
5/13/2022	8.64	8.69	0.05	0	
5/19/2022	8.92	8.96	0.04	0	
5/23/2022	8.88	8.93	0.05	0	
6/3/2022	8.55	8.92	0.37	0.5	
6/10/2022	8.63	8.64	0.01	0	
6/16/2022	8.77	8.82	0.05	0	
6/24/2022	8.91	8.92	0.01	0	
6/28/2022	8.99	9.15	0.16	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	6.01	6.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	4.6	4.61	0.01	0	
5/13/2022	5.21	5.23	0.02	0	
6/16/2022	-	5.49	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	4.85	4.86	0.01	0	
5/13/2022	5.45	5.46	0.01	0	
6/16/2022	-	5.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/7/2022	7.65	7.66	0.01	0	
5/13/2022	5.81	5.82	0.01	0	
6/16/2022	5.98	5.99	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	10.35	10.41	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	-	11.24	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/26/2022	-	11.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	7.23	7.24	0.01	0	
4/12/2022	6.89	6.92	0.03	0	
4/21/2022	-	6.78	0	0	
4/29/2022	-	7.09	0	0	
5/8/2022	7.5	7.51	0.01	0	
5/13/2022	-	7.79	0	0	
5/19/2022	-	7.8	0	0	
5/23/2022	-	7.94	0	0	
6/3/2022	7.44	7.45	0.01	0	
6/10/2022	-	7.61	0	0	
6/16/2022	-	7.64	0	0	
6/24/2022	-	7.94	0	0	
6/28/2022	-	8.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	7.24	7.29	0.05	0	
4/12/2022	6.95	7.01	0.06	0	
4/21/2022	6.88	6.95	0.07	0	
4/29/2022	7.18	7.31	0.13	0	
5/8/2022	7.58	7.87	0.29	0	
5/13/2022	7.81	7.92	0.11	0	
5/19/2022	7.85	8.25	0.4	0	
5/23/2022	-	7.93	0	0	
6/3/2022	7.48	7.53	0.05	0	
6/10/2022	7.68	7.69	0.01	0	
6/16/2022	7.91	7.97	0.06	0	
6/24/2022	7.98	8.11	0.13	0	
6/28/2022	8.03	8.2	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	-	6.68	0	0	
4/12/2022	-	6.36	0	0	
4/21/2022	-	6.34	0	0	
4/29/2022	-	7.89	0	0	
5/8/2022	-	7.28	0	0	
5/13/2022	-	7.61	0	0	
5/19/2022	-	7.62	0	0	
5/23/2022	-	7.78	0	0	
6/3/2022	-	7.03	0	0	
6/10/2022	-	7.39	0	0	
6/16/2022	-	7.83	0	0	
6/24/2022	-	7.8	0	0	
6/28/2022	-	7.89	0	0	

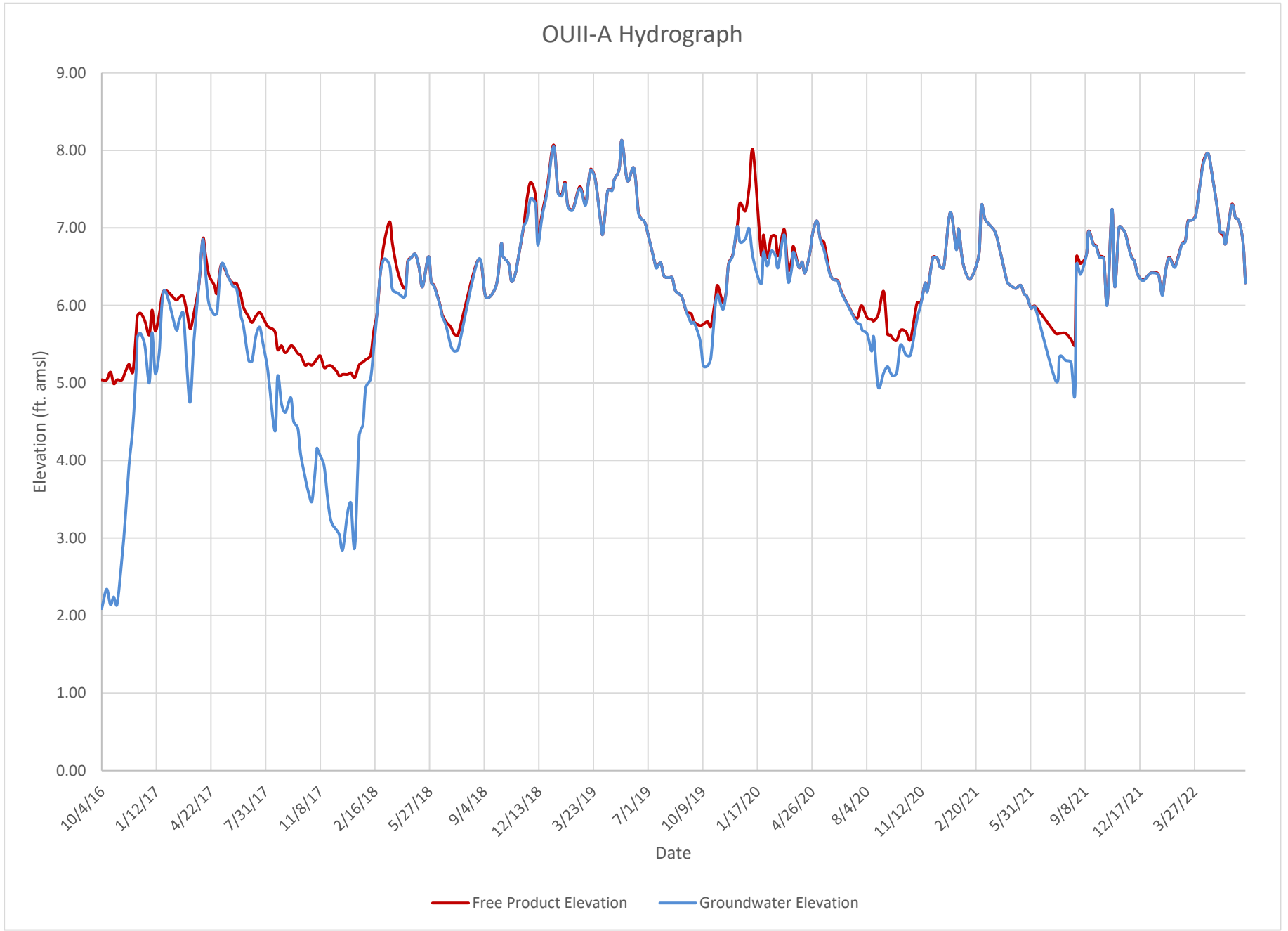
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**		**Comments**
4/5/2022	-	6.46	0	0	
4/12/2022	-	6.41	0	0	
4/21/2022	-	6.39	0	0	
4/29/2022	-	6.64	0	0	
5/8/2022	-	7.78	0	0	
5/13/2022	-	8.06	0	0	
5/19/2022	-	8.11	0	0	
5/23/2022	-	8.28	0	0	
6/3/2022	7.31	7.32	0.01	0	
6/10/2022	7.7	7.79	0.09	0	
6/16/2022	8.18	8.24	0.06	0	
6/24/2022	8.21	8.34	0.13	0	
6/28/2022	8.28	8.45	0.17	0	

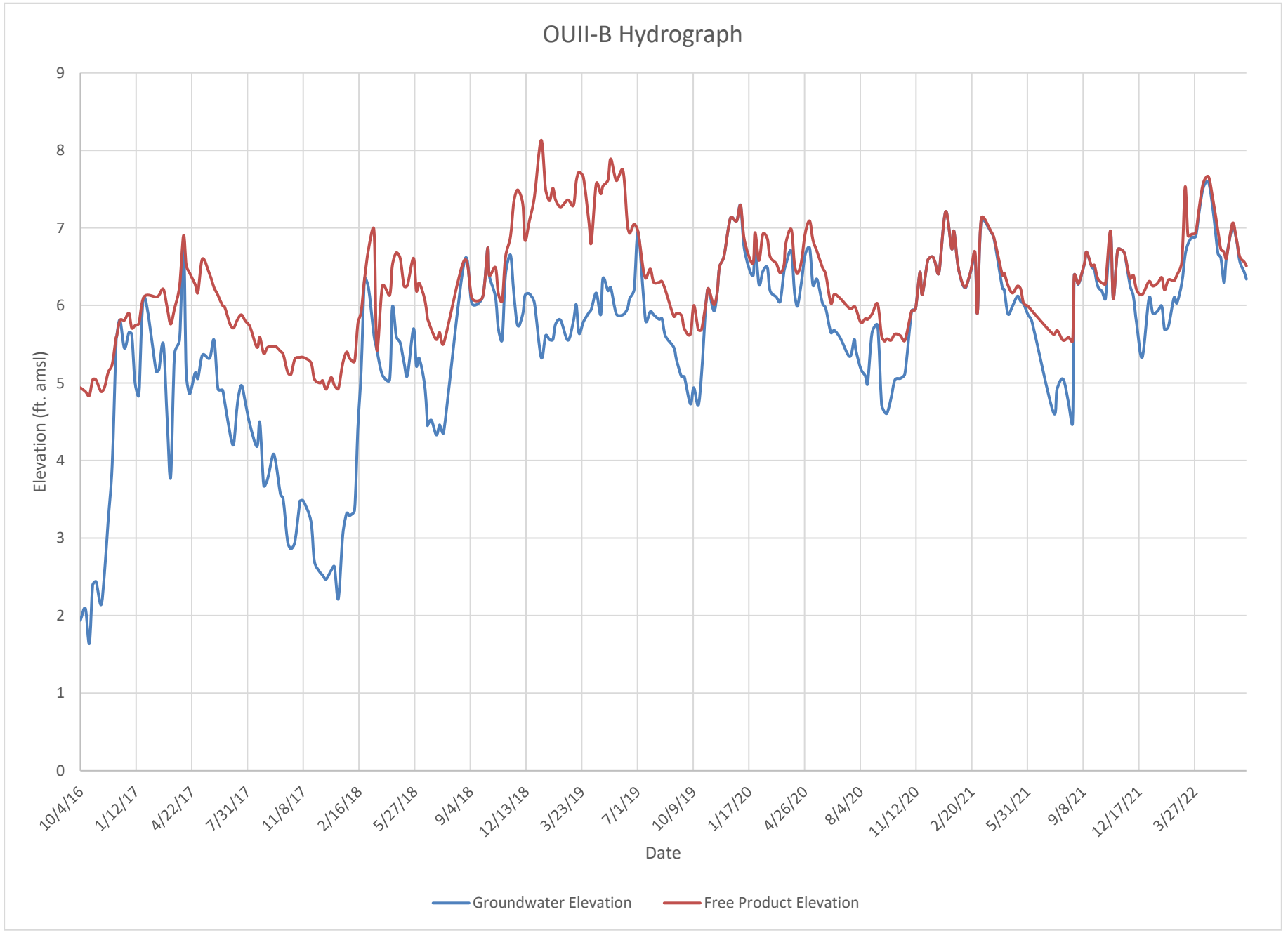
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	-	7.49	0	0	
4/12/2022	-	7.13	0	0.25	
4/21/2022	-	7.28	0	0	
4/29/2022	-	7.34	0	0	
5/8/2022	-	7.84	0	0	
5/13/2022	-	8.09	0	0	
5/19/2022	-	8.05	0	0	
5/23/2022	-	8.12	0	0	
6/3/2022	-	7.65	0	0	
6/10/2022	-	7.73	0	0	
6/16/2022	-	8.01	0	0	
6/24/2022	-	8.04	0	0	
6/28/2022	-	8.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2022	-	3.64	0	0	
4/12/2022	-	3.41	0	0	
4/21/2022	-	3.38	0	0	
4/29/2022	-	3.84	0	0	
5/8/2022	-	4.78	0	0	
5/13/2022	-	5.19	0	0	
5/19/2022	-	5.18	0	0	
5/23/2022	-	5.42	0	0	
6/3/2022	-	4.02	0	0	
6/10/2022	4.63	4.64	0.01	0	
6/16/2022	-	5.51	0	0	
6/24/2022	-	5.55	0	0	
6/28/2022	-	5.74	0	0	

ATTACHMENT B

Off-Site Monitoring Well Hydrographs


OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
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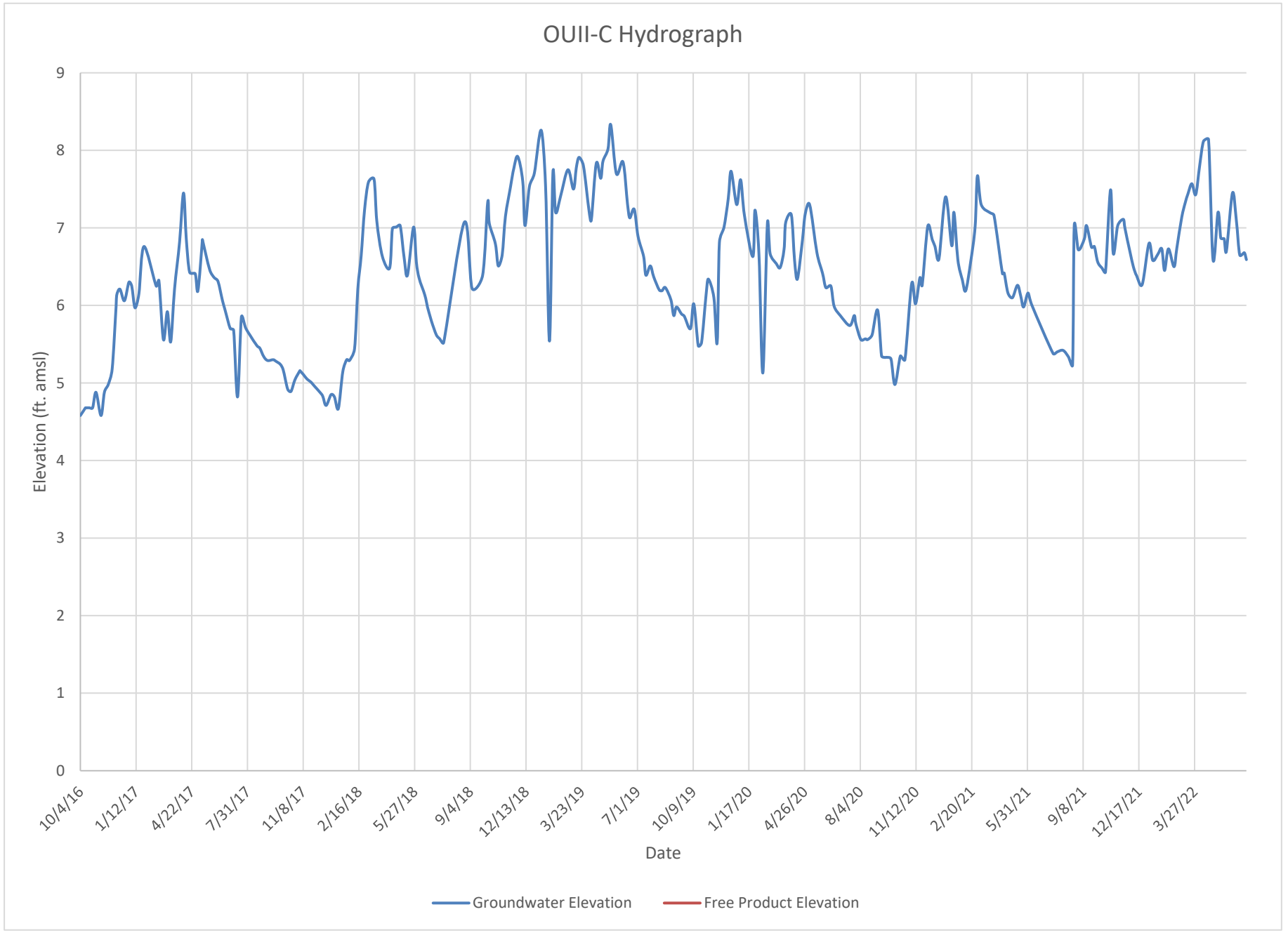
9/8/21
12/17/21
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
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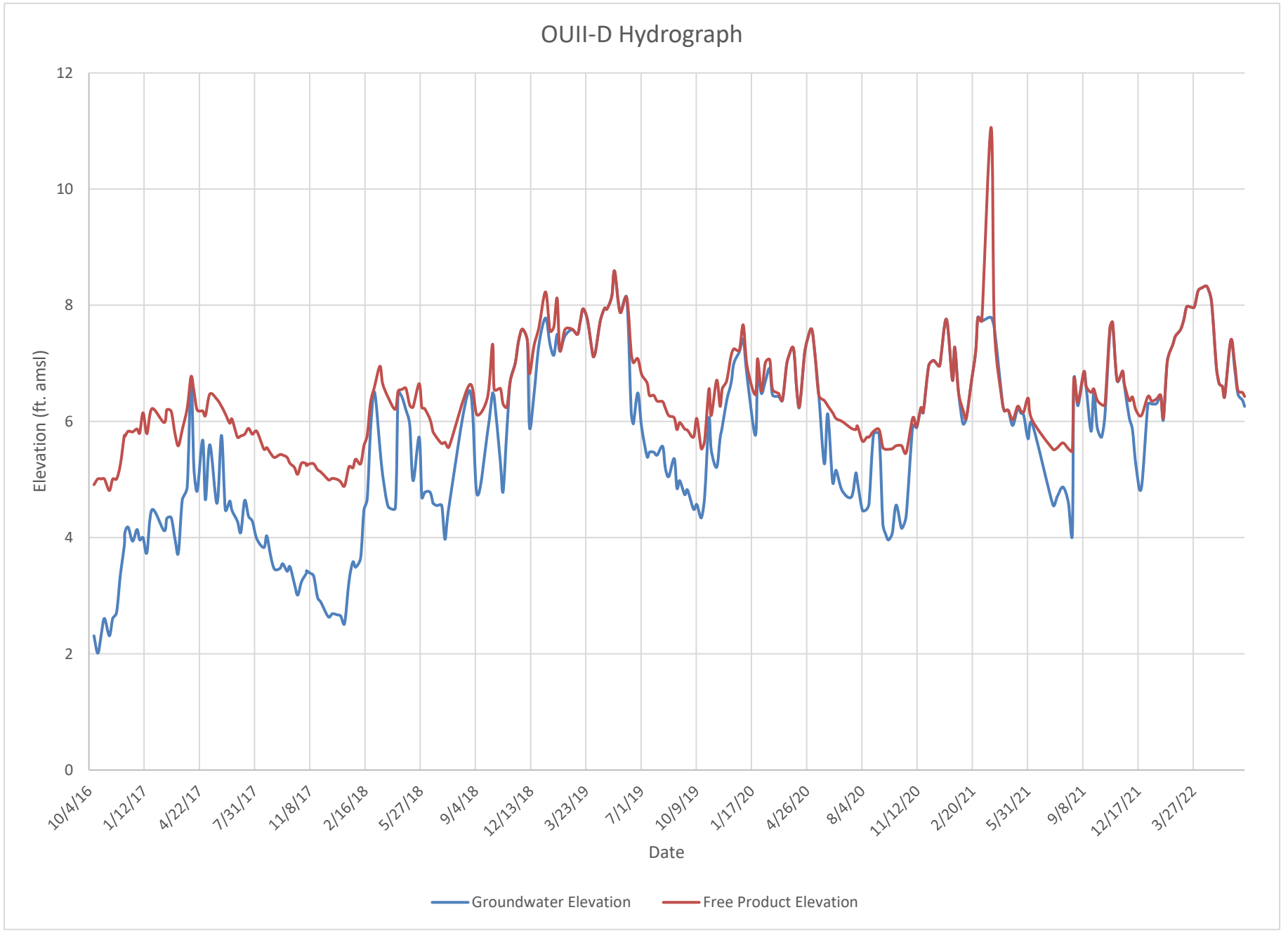
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
12
10
8
6
4
2
0
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
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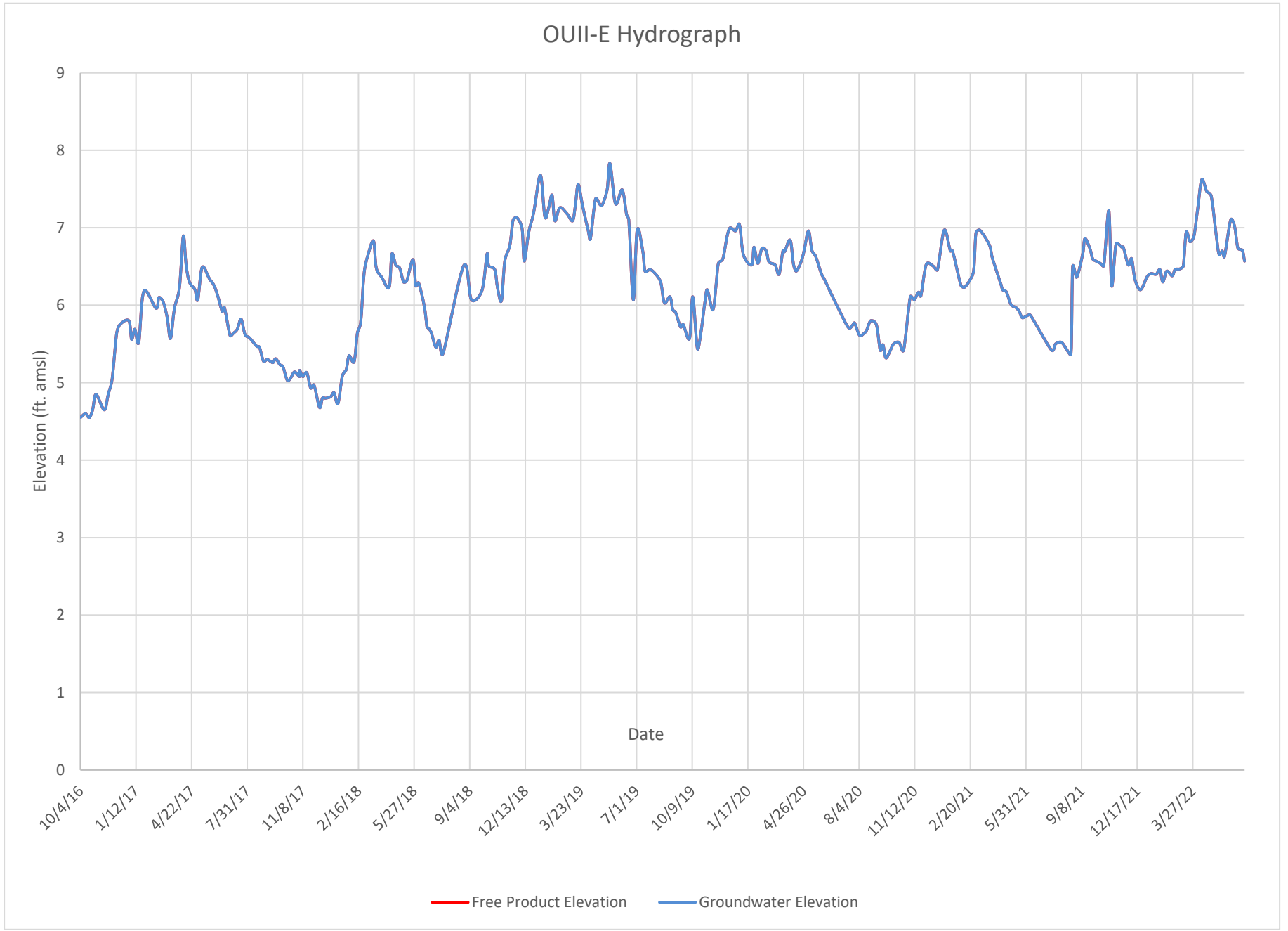
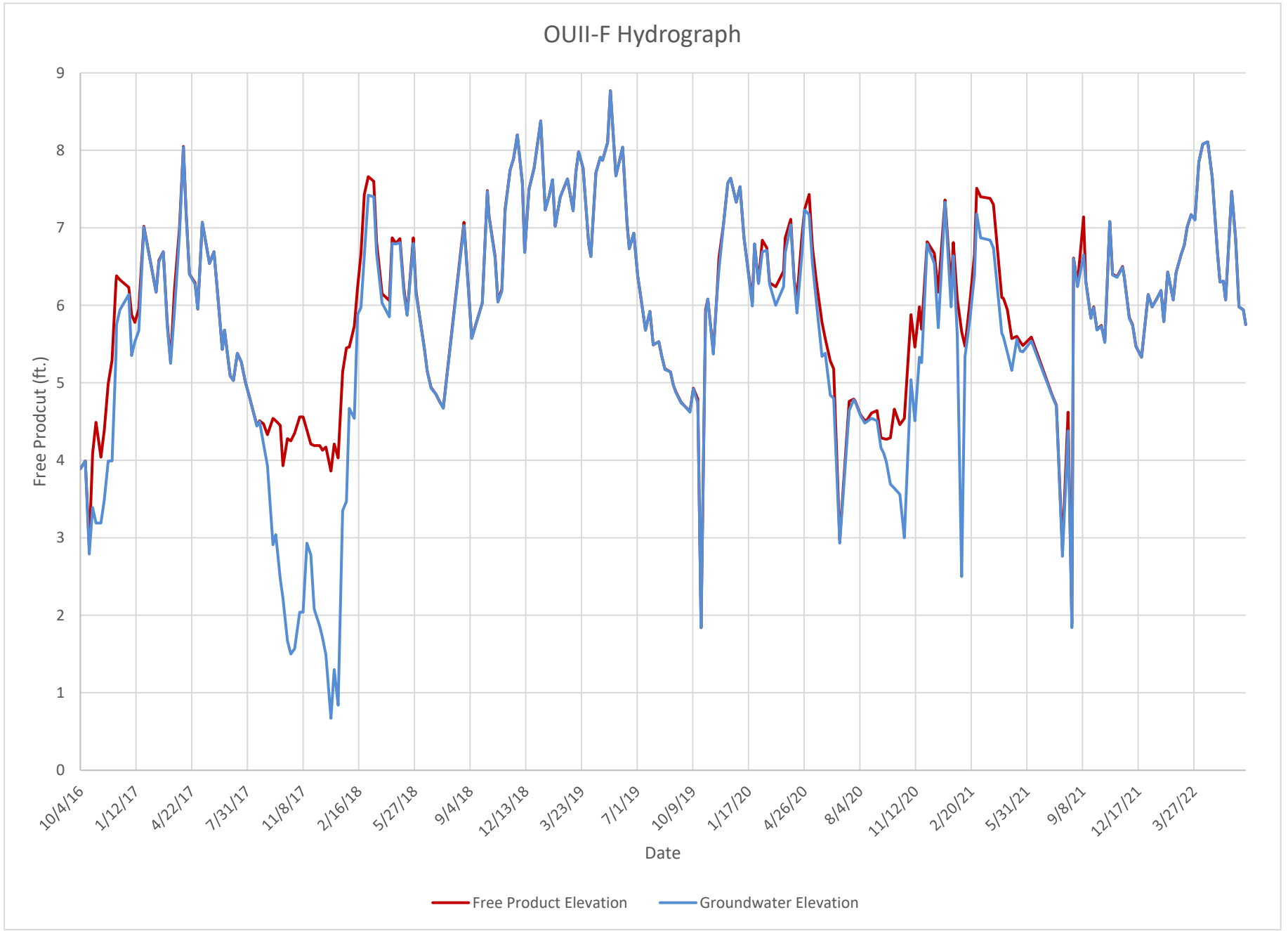
12/17/21
3/27/22
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
Date
Free Product Elevation
Groundwater Elevation

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		X	
Is there any evidence of settlement?		X	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

Good condition

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?		X	
Is there debris or other material on the slopes?		X	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

Dumpster on site to continue removal of scrap metal.

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Monitoring wells and protective casings in good condition.

OU-I/OU-II Drainage Channels

Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

	Yes	No	Corrective Action Needed?
OU-I/OU-II Waste Accumulation Drums and Tank			
Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full?		x	
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

8 Drums disposed of 1/25/22. See attached sample results and manifest..

OU-I/OU-II Perimeter Fencing

Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	X		

Specify Correction Actions Needed:

N/A

Date of Inspection: 05/19/22 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JULY 1, 2022 THROUGH SEPTEMBER 30, 2022

HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between July 1, 2022 and September 30, 2022 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Note: Metro-North Railroad (MNR) received a letter titled "2020 Site Management Plan Status Reports" from the New York State Department of Environmental Conservation (NYSDEC), dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address other comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. Comments were received from the NYSDEC regarding the Corrective Measures Work Plan on March 8, 2022. A response was provided to the NYSDEC on April 19, 2022 and comments were received from the NYSDEC regarding this response on July 29, 2022. Following discussions between MNR, NYSDEC, and DAY representatives, a document describing an alternative approach to assess the free product impact in the OUII area was submitted to the NYSDEC on August 31, 2022. To date, the NYSDEC has not responded to the August 31, 2022 submittal. However, NYSDEC representatives visited the Site on September 1, 2022, and in an email dated October 6, 2022, the NYSDEC stated: "…*that there potentially exists additional information regarding potential off-site migration of contamination. Previously, the Department was seeking that MNRR pursue additional measures to address this potential migration however based upon the sit visit if you obtain the groundwater sampling data from the Former Croton Sanitary Landfill (FDCPSL) and provide it to the department, this may adequately address our previous concerns."* MNR representatives are currently attempting to obtain the relevant documentation from the FCPSL.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the results of this monitoring, are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on July 12, 2022 is included as Figure 1. As shown on Figure 1, groundwater flow is generally towards OU-I and northerly thereafter.

FREE PRODUCT REMOVAL RECORDS: During the report period, Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product) were used to remove free product from wells RW-1, FA4-8, and AI2-3; and a bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ was formerly located in well FA4-17. However, it was removed during a previous report period and a portable Spill Buddy™ was used to remove free product from this well during the current report period.]

A Spill Buster™ was installed in well AI2-3 in November 2016, and subsequent to its installation approximately 128 gallons of free product were removed in 2016; and approximately 301 gallons in 2017, approximately 120 gallons in 2018, and approximately 116 gallons in 2019. Between January 1, 2020 and September 30, 2020, approximately 8.2 gallons of free product were removed from well AI2-3,between October 1, 2020 and June 30, 2021 no free product was removed ,between July 1, 2021 and September 30, 2021, approximately 47.4 gallons of free product were removed, between October 1, 2021 and December 31, 2021, approximately 2.6 gallons of free product were removed, between January 1, 2022 and March 31, 2022, approximately 26.8 gallons of free product were removed, and between April 1, 2022 and June 30, 2022 approximately 1 gallon of free product was removed from well AI2-3. During the current report period (i.e., between July 1, 2022 and September 30, 2022) approximately 56.2 gallons of free product were removed from well AI2-3. The reason for the varying/decreasing amounts of free product removed from well AI2-3 is not known.

The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and June 30, 2022) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between July 1, 2022 and September 30, 2022) and the preceding report period (i.e., between April 1, 2022 and June 30, 2022) is included as Figure 2.

During the current reporting period, approximately 163 gallons of free product was removed from wells at the Site, The majority of the free product was removed from NAPL AreaL4 (i.e., approximately 105 gallons). The total amount of free product removed in the previous reporting period (i.e., between April 1, 2022 and June 30, 2022) was approximately 44 gallons. Since January 1, 2013, approximately 4,795 gallons of free product or approximately 112 gallons has been removed per reporting period (i.e., every three months) has been removed from the Site.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. On September 13, 2022, a sample of free product was collected from a full drum (i.e., used to collect free product from well AI2-3) and submitted to York Analytical Laboratories, Inc. (York) for testing of polychlorinated biphenyls (PCBs). As presented in the report submitted by York (refer to Attachment B), PCBs were not detected at concentrations greater than 50 parts per million (ppm). During the current report period drums were not removed from the Site for off-site disposal.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms

PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Between August 10, 2022 and August 11, 2022, groundwater samples were collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 4-11, and DAY-1 (i.e., as required by the long-term monitoring plan identified in the SMP, and a subsequent request of the NYSDEC to test for emerging contaminants in the groundwater samples collected from select wells). The groundwater samples were submitted to Hampton-Clarke Inc. (Hampton-Clarke) for testing of the following parameters:

- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Polychlorinated Biphenyls (PCBs)
- Metals
- 1,4-Dioxane (monitoring wells VE1-4, VE2-1, and VE4-11)

Note: At the time of groundwater sampling the depth to water in monitoring well VE 3-1 was 5.6 ft. below top of casing (bTOC) and the apparent depth to bottom of this monitoring well was 5.9 ft. bTOC. Based on the monitoring well construction log for VE 3-1 the expected depth of VE 3-1 is approximately 20 ft. bgs. The cause of the apparent blockage in monitoring well VE 3-1 is not known. Due to the insufficient water column a groundwater sample was not collected from monitoring well VE 3-1.

Groundwater samples collected from monitoring wells VE1-4, VE2-1, and VE4-11 were subcontracted to SGS North America Inc. (SGS) by Hampton-Clarke for testing of:

- Per- & Polyfluorinated Alkyl Substances (PFAS)

Free product/groundwater samples were also collected from six off-site monitoring wells (i.e., OUII-A through OUII-F) and five on-site monitoring wells (i.e., FA 4-9, FA4-16, PGW-2, VE 4-7, and VE 4-9). These samples were submitted under chain-of-custody control to Hampton-Clarke for testing of PCBs via USEPA method 8082A.

Test results for the groundwater and free product samples collected in August 2022 as well as those collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2021 per the requirements of the long-term monitoring plan, are presented on Table 3 through Table 6. The groundwater test results for volatile organic compounds are presented in Table 3, semi-volatile organic compounds in Table 4, polychlorinated biphenyls in Table 5, and metals in Table 6. The applicable groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004 (TOGS 1.1.1) are also included on Table 3 through Table 6. The test results are discussed below.

- As shown on Table 3, VOCs were not detected in the groundwater samples collected in August 2022 from monitoring wells VE 1-2, VE 1-4, and VE 4-11. The sample collected from monitoring well DAY-1 in August 2022 contained a concentration of benzene that was below the TOGS 1.1.1 groundwater standard. The sample collected from monitoring well VE 1-4 in August 2022 had a concentration of toluene that exceeded the TOGS 1.1.1 groundwater

standard t The VOC concentrations detected are consistent with those measured during previous sampling events.

- As shown on Table 4, SVOCs were not detected in the groundwater samples collected in August 2022 from monitoring wells VE 1-4, VE 2-1, and VE 4-11. [Note: the reporting limit for several SVOCs (i.e., benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene) exceeded the TOGS 1.1.1 groundwater standard or guidance values.] The samples collected from monitoring wells VE 1-2 and DAY-1 in August 2022 contained detectable concentrations of one or more SVOCs (e.g., acenaphthene, fluoranthene, fluorene, phenanthrene, and pyrene). The concentrations of the detected SVOCs in the samples collected from monitoring wells VE 1-2 and DAY-1 in August 2022 were below the TOGS 1.1.1 groundwater standards or guidance values. The SVOC concentrations detected in the samples collected in August 2022 are comparable to those measured during previous sampling events.

- As shown on Table 5, PCBs were not detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, OUII-C in August 2022. PCBs were detected in the groundwater/free product samples collected from monitoring wells VE 4-11, DAY-1, FA 4-9, FA 4-16, PGW-2, VE 4-7, VE 4-9, OUII-1, OUII-B, OUII-D, OUII-E, and OUII-F at concentrations that exceeded the TOGS 1.1.1 groundwater standard of 0.09 µg/L. Specifically, the concentrations of PCBs detected ranged from 0.36 µg/L detected in the sample collected from well OUII-E to a 140 µg/L detected in the sample collected from well FA 4-9. With the exception of the samples collected from monitoring well FA 4-9, the concentrations of PCBs detected in the wells sampled in August 2022 are consistent with those measured during previous sampling events. The concentration of PCBs in the sample collected from well FA 4-9 in August 2022 (i.e., 140 ug/L) exceeded the concentration detected in the sample collected from well FA 4-9 in August 2021 (i.e., not-detected at concentrations greater than laboratory method detection limits). This well was not tested for PCBs prior to 2021.

- As shown on Table 6, chromium was detected in the groundwater samples collected from monitoring wells VE 1-2 and DAY-1in August 2022. Copper was detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, and DAY-1in August 2022. Arsenic was detected in the groundwater sample collected from monitoring well DAY-1in August 2022. Lead was detected from monitoring wells VE 1-2, VE 1-4, and DAY-1in the groundwater samples collected. The concentrations of arsenic, chromium, copper, and lead detected are below the TOGS 1.1.1 groundwater standards or guidance values. In addition, the concentrations of arsenic copper, lead, and chromium detected in the sample collected in August 2022 are consistent with those measured in samples collected/tested during previous sampling events.

The test results for the groundwater samples collected for emerging contaminant testing (i.e., PFAS and 1,4-Dioxane) are included in Table 7. The NYSDEC does not currently have groundwater standards or guidance values for PFAS, perfluorooctanoic acid (PFOA) or prefluorooctanesulfonic acid (PFOS); however, the NYSDEC document titled *Guidelines for Sampling and Analysis of PFAS* dated January 2020 states the following:

"PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10

ng/L (ppt). In addition, further assessment of water may be warranted if either of the following screening levels are met:

a. *any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or*
b. *total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L."*

As shown on Table 7, the sample collected in August 2022 from well VE 1-4 had concentrations of PFOA and PFOS that exceeded 10 nanograms per liter (ng/L) or parts per trillion (ppt). The sample collected in August 2022 from well VE 2-1 had a concentration of PFOS that exceeded 10 ppt. The concentration of PFOA in the sample collected from well VE 2-1, and the concentrations of PFOA and PFOS in the sample collected from well VE 4-11 in August 2022 were below 10 ng/L. No individual PFAS was detected at or above 100 ng/L and the total concentration of PFAS was less than 500 ng/L in the samples collected in August 2022. [Note: Drinking water wells are not located in proximity to the Site.]

Copies of the analytical laboratory reports submitted by Hampton-Clarke and SGS for the samples collected in August 2022 are available upon request.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F. Free product was not detected in wells OUII-C or OUII-E. Approximately 0.45 gallons of free product were recovered from monitoring well OU-II B and approximately 1.15 gallons of free product were recovered from monitoring well OU-II D. Free product was not recovered from monitoring wells OU-II A, OU-II C, OU-II E, and OU-II F.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the average amount of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected typically decreases when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15,

2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on May 19, 2022 by MNR.

During the May 19, 2022 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on May 19, 2022 was included in the status report completed for the previous report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between October 1, 2022 and December 31, 2022), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. [Note: Well AI2-3 should be evaluated and/or cleaned/developed if necessary.] If it is determined that a Spill Buster™ in one of these wells is functional, but that limited free product remains in that location, the Spill Buster™ will be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5). Free product detected in wells not containing a Spill Buster™ system should be removed using a portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022. If the apparent blockage in monitoring well VE 3-1 cannot be removed, a replacement well may be required.

The next OU-I/OU-II inspection is due on or about October 31, 2022. The next groundwater sampling and testing will be completed on, or about, August 31. 2023. A SMP status report for the work completed during the upcoming period (i.e., October 1, 2022 through December 31, 2022) will be submitted in January 2023.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area, during the upcoming period, the document should be revised and work described should be initiated, as appropriate. If relevant ground water sampling data is obtained from the FCPSL it will be submitted to the NYSDEC on or before December 6, 2022.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: July 1, 2022 through September 30, 2022
Table 2: Historic Free Product Removal Totals: December 1, 2012 through June 30, 2022
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: July 2022
Figure 2: Summary of Free Product Removal for the Report Periods July 1, 2022 – September 30, 2022 and April 1, 2022 – June 30, 2022
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: July 1, 2022 - September 30, 2022
Attachment B: Off-Site Monitoring Well Hydrographs
Attachment C: Analytical Laboratory Report

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: April 1, 2022 through June 30, 2022

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0.88
Total	**0.88**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	1.0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**1**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	56.2
VE2-1	0
Total	**56.2**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	16
FA4-9	0.5
FA4-10	NM
FA4-11	6.44
FA4-12	0.75
FA4-13	0
FA4-14	18.5
FA4-15	2.38
FA4-16	2.32
FA4-17	1.13
FA4-18	0.63
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	50.8
VE4-1	0
VE4-5	5.38
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**104.83**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - March 31, 2022

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	161.93
Total	**191.425**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	21.49
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**31.482**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3	949.03
VE2-1	0
Total	**950.66**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	584.06
FA4-9	3.48
FA4-10	0.13
FA4-11	143.77
FA4-12	10.92
FA4-13	101.8
FA4-14	273.39
FA4-15	79.72
FA4-16	71.11
FA4-17	82.21
FA4-18	112.51
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	22.83
RW-1*	1717.8
VE4-1	0
VE4-5	215.51
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	4.93
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3441.55**

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 1-2												VE 1-4												VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	**8.3**
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																			
		VE 3-1												VE 4-11												DAY 1											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																	
		Field Blank									Trip Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																				
		VE 1-2													VE 1-4														VE 2-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																								
		VE 3-1												VE 4-11												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		DAY 1												Field Blank						
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date										
		OUII-A		OUII-B	OUII-C		OUII-D		OUII-E		OUII-F	
		8/24/21	8/10/22	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [0.75]	ND [0.13]	ND [0.26]	ND [0.91]	ND [0.26]	ND [0.13]	ND [0.26]	ND [0.13]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [0.75]	ND [0.14]	ND [0.26]	ND [0.99]	ND [0.26]	ND [0.14]	ND [0.26]	ND [0.14]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [0.75]	ND [0.17]	ND [0.26]	ND [1.20]	ND [0.26]	ND [0.17]	ND [0.26]	ND [0.17]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.84]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.87]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	14.7 D	66	28	ND [0.12]	ND [0.26]	8.30 P	0.61	ND [0.12]	0.36	2.00 P	4.8
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [0.75]	ND [0.11]	ND [0.26]	ND [0.76]	ND [0.26]	ND [0.11]	ND [0.26]	ND [0.11]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.84]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [0.75]	ND [0.16]	ND [0.26]	ND [1.20]	ND [0.26]	ND [0.16]	ND [0.26]	ND [0.16]	ND [0.25]
Total PCBs	0.09	14.7	66	28	ND	ND [0.26]	8.3	0.61	ND	0.36	2	4.8

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date										
		FA4-9		FA4-11	FA4-16		PGW-2		VE4-7		VE4-9	
		8/26/21	8/10/22	8/24/21	8/24/21	8/10/22	8/24/21	8/10/22	8/25/21	8/10/22	8/24/21	8/10/22
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [0.13]	ND [0.13]	ND [5.0]	ND [0.41]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.13]	ND [1.3]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [0.14]	ND [0.14]	ND [5.0]	ND [0.45]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.14]	ND [1.3]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [0.17]	ND [0.17]	ND [5.0]	ND [0.54]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.17]	ND [1.3]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.38]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.39]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1254	NS	ND [0.12]	140	0.89 P	10	67	2.1	4.2	0.35 JP	3.7	ND [0.12]	17
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [0.11]	ND [0.11]	ND [5.0]	ND [0.34]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.11]	ND [1.3]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.38]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [0.16]	ND [0.16]	ND [5.0]	ND [0.53]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.16]	ND [1.3]
Total PCBs	0.09	ND	140	0.89	10	67	2.1	4.2	0.35	3.7	ND	17

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Estimated Value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																								
		VE 1-2													VE 1-4											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	29	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3	22.3	34
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																							
		VE 2-1													VE 3-1										
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																							
		VE 4-11													DAY 1										
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J	16
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Guidance Values[1]	Test Location and Sample Date																
		VE 1-2	VE 1-4							VE 2-1								
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	8.2	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6
Perfluorooctanoic acid (PFOA)	10	5.2	**29**	**50**	**51.3**	15	44	43	12.3	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	**23**	7.3
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]
Perfluorooctanesulfonic acid (PFOS)	10	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55.5**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**	**60.5**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	9.7	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42	4.8
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]	ND [7.1]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]	ND [7.1]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [3.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	55.5	24	3.4	5.4	0	0	11	14	100	60.5
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date														
		VE 3-1	VE 4-11						DAY 1	Field Blank					Equipment Blank	
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	8/2/17	2017	2018	FB91119	FB6420	FB-082621	EB-082621	8/11/2022
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [8.9]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctanoic acid (PFOA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	ND [1.8]	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctanesulfonic acid (PFOS)	10	**14**	7.2	4.2	ND [10]	5.2	6.1 I	6.6	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [3.6]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [1.7]	ND [3.6]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [8.9]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	ND [7.1]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	2.0 J B	ND [7.1]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	ND [7.1]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [0.85]	ND [7.1]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [0.51]	ND [3.6]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [3.6]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [3.6]
PFOA & PFOS		19.6	7.2	4.2	-	-	7.5	6.6	34	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)		3.3	39	15	10.5	6.8	184.91	9.4	5.4	ND	ND	ND	ND	1.7	1.7	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	16	46.8	ND	ND	ND	ND	1.7	1.7	ND
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	NT	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- VE 4-6 (6.16 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made July 2022
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	08-2022
DATE DRAWN	08-2022
DATE ISSUED	08-04-2022

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: July 2022

Project No.
22-3636M

FIGURE 1

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Tuesday, November 1, 2022 9:11:22 AM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period July-Sept 2022.dwg

N

HUDSON RIVER

AI1-17: 0 / 0 / 0 / 0.01 / 8/11/22
VE1-4: 0 / 0 / 0 / 0
VE1-3: 0 / 0 / 0 / 0
AI1-4: 0 / 0 / 0 / 0.06 / 8/11/22
AI1-12: 0 / 0 / 0.05 / 0.01 / 5/18/22 / 8/11/22
AI2-2: 0 / 0 / 0 / 0.04 / 8/11/22
AI2-3: 1.0 / 56.2 / 0.22 / 0.72 / 6/3/22 / 7/8/22 / 6/10/22
SP North: 0 / 0 / 0 / 0
AI1-15: 0 / 0 / 0.01 / 0.01 / 5/18/22 / 8/11/22
AI1-8: 0 / 0 / 0 / 0
VE1-2: 0 / 0 / 0 / 0.01 / 8/11/22
VE1-1: 1.25 / 1.0 / 0.99 / 1 / 5/18/22 / 8/11/22
AI1-1: 0 / 0 / 0 / 0
VE2-1: 0 / 0 / 0 / 0
VE3-1: 0 / 0 / 0 / 0
AI3-6: 0 / 0 / 0.01 / 0 / 5/26/22
AI3-4: 0 / 0 / 0 / 0
AI1-16: 0 / 0 / 0 / 0
AI1-11: 0 / 0 / 0.04 / 0.06 / 5/18/22 / 8/11/22
V-4: 2.06 / 0.88 / 0.5 / 0.45 / 5/8/22 / 8/4/22
FA4-19: NM / NM / NM / NM
FA4-21: 0 / 0 / 0 / 0.01 / All Mea.
V-2: 0 / 0 / 0.07 / 0.07 / 6/16/22 / 8/11/22
FA4-14: 4.38 / 18.5 / 0.76 / 1.27 / 5/23/22 / 8/12/22
FA4-23: 0 / 0 / 0.08 / 0.01 / All Mea. / 4/7/22 / 6/16/22
V-3: 0 / 0 / 0.1 / 0.02 / 6/16/22 / 9/13/22
V1: 0 / 0 / 0 / 0
FA4-12: 0 / 0.75 / 0.03 / 0.52 / 5/26/22 / 8/11/22
FA4-13: 0 / 0 / 0.01 / 0.01 / 9 of 13 / All Mea.
FA4-10: NM / NM / NM / NM
DAY-1: 0 / 0 / 0 / 0
RW-1: 16.8 / 50.8 / 0.06 / 0.51 / 5/24/22 / 8/4/22
PGW-2: 0.25 / 0 / 0.93 / 0.23 / 4/21/22 / 9/26/22
VE4-1: 0 / 0 / 0.01 / 0 / 5/26/22
OUII-F: 0 / 0 / 0.01 / 0.3 / 6/10/22 / 9/20/22
FA4-8: 6.4 / 16 / 0.14 / 0.02 / 6/24/22 / 8/18/22
FA4-9: 0 / 0.5 / 0.21 / 1.45 / 4/7/22 / 8/11/22
OUII-E: 0 / 0 / 0 / 0
VE4-5: 1.31 / 5.38 / 0.37 / 0.8 / 6/3/22 / 9/20/22
FA4-11: 0 / 6.44 / 0.02 / 1.18 / 5/19/22 / 8/25/22
OUII-D: 0 / 1.15 / 0.17 / 1.8 / 6/28/22 / 8/18/22
VE4-6: 0 / 0 / 0.01 / 0.01 / 5/26/22 / 8/11/22
OUII-C: 0 / 0 / 0 / 0
VE4-7: 0 / 0 / 0.02 / 0.01 / 5/13/22 / 7/27/22
FA4-15: 1.25 / 2.38 / 0.65 / 0.7 / 4/12/22 / 9/1/22
VE4-8: 0 / 0 / 0.01 / 0.01 / 4/7/22 / 8/11/22 / 5/13/22
OUII-B: 0 / 0.45 / 0.4 / 0.91 / 5/19/22 / 8/25/22
FA4-16: 0.88 / 2.32 / 0.46 / 0.50 / 4/5/22 / 8/4/22
FA4-20: 0 / 0 / 0 / 0
VE4-10: 0 / 0 / 0.06 / 0.01 / 5/26/22 / 8/11/22
OUII-A: 0 / 0 / 0.03 / 0.29 / 4/12/22 / 9/1/22
FA4-17: 5.39 / 1.13 / 0.94 / 0.28 / 4/12/22 / 8/25/22
FA4-18: 2.76 / 0.63 / 0.76 / 0.36 / 5/8/22 / 9/13/22
VE4-9: 0 / 0 / 0.01 / 0.01 / 4/7/22 / 8/11/22 / 5/13/22 / 9/13/22 / 6/16/22
VE4-13: NM / NM / NM / NM
VE4-12: 0 / 0 / 0 / 0
VE4-11: 0 / 0 / 0 / 0

OU-I
OU-II

CONC SLAB FENCE
8" CLF
CONCRETE SLAB FENCE
PROPANE STORAGE TANK GATE
METAL SHED
GATE
MH
TRAILER
GRAVEL AREA
LP
CONC
BIT PAVEMENT
APPROXIMATE LOCATION OF AREA L1 SHEETING WALL
GRASS AREA
EQUIP. BLDG.
PUMP STATION
CONTAINER
TANKS
TREATMENT PLANT BUILDING
BUILDING
TANK
GRAVEL
CHIRICO STREET
TOP OF EXISTING SHEET PILE
PAVED
DIRT RYE
EQUIP. BLDG.
EQUALIZATION TANK
5' HIGH CONC FENCE
CONC RETAINING WALL
BIT ROAD
WESTCHESTER COUNTY RAILROAD ONE LANDFILL

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- VE1-3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1-2 — Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- V-1 — OU-I Contingency Vapor Extraction System Wells
- FA4-14 (4.38 / 18.5 / 0.76 / 1.27 / 5/23/22 / 8/12/22)
  - Long-Term Monitoring Well Identification
  - Free Product Removed (Gallons) During Report Period
  - Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period April 1, 2022 Through June 30, 2022 Shown In Green (Left)

Measurements Made During The Report Period July 1, 2022 Through September 30, 2022 Shown In Red (Right)

NM — Well Not Measured

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	10/2022
DATE DRAWN	11/1/2022
DATE ISSUED	11/1/2022

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

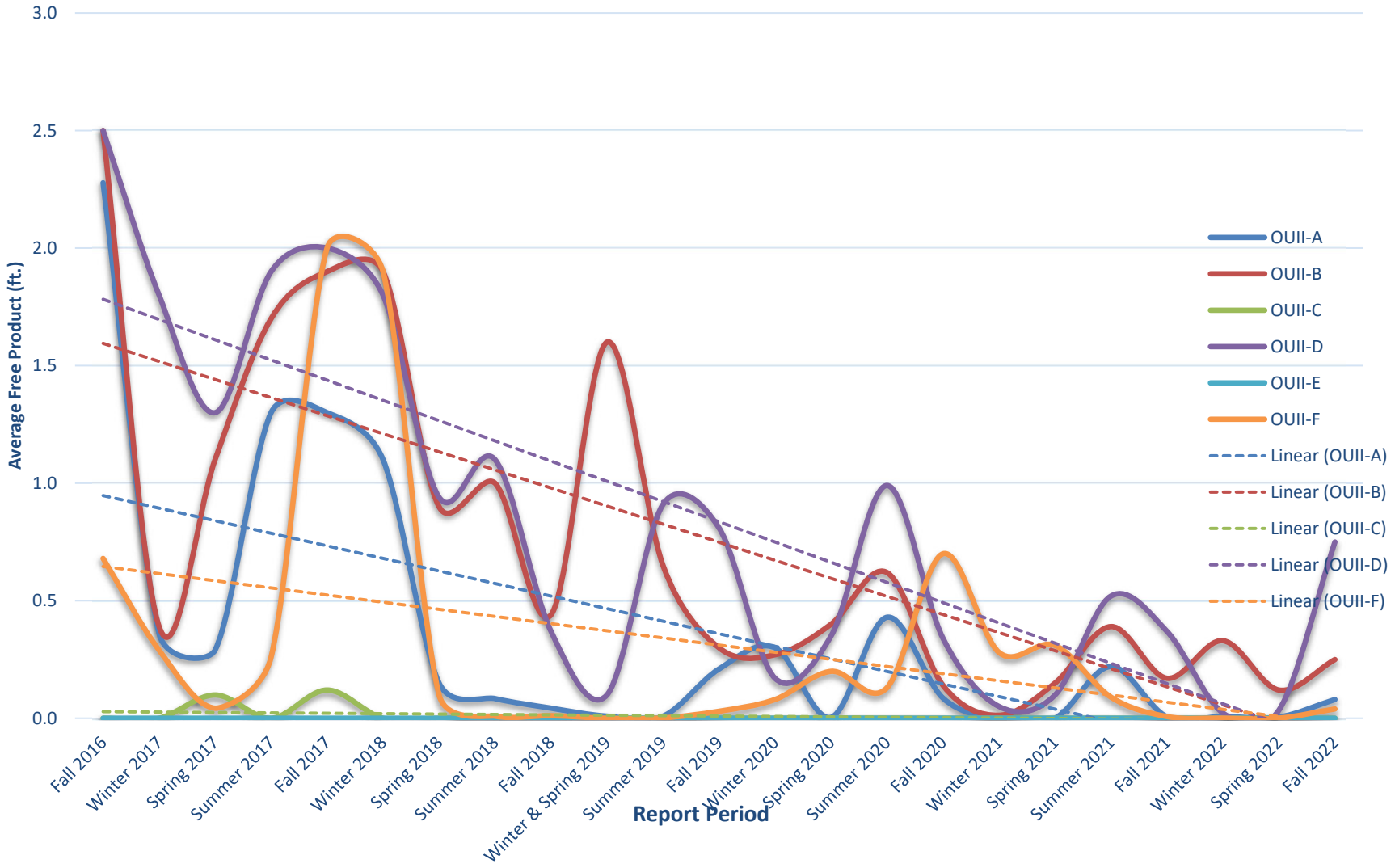
PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods April - June 2022 and July - September 2022

PROJECT NO.
22-3662M

FIGURE 2

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
July 1, 2022 through September 30, 2022

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.61	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	2.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	0	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	12.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.32	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	12.49	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	-	16.18	0	0	
8/11/2022	-	16.3	0	0	
9/13/2022	-	16.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	17.48	17.55	0.07	0	
9/13/2022	17.52	17.53	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	16.95	16.96	0.01	0	
8/11/2022	17.11	17.12	0.01	0	
9/13/2022	17.14	17.16	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	15.98	16.25	0.27	0	
7/15/2022	16.18	16.36	0.18	0	
7/19/2022	16.02	16.2	0.18	0	
7/27/2022	16.25	16.4	0.15	0	
8/4/2022	16.20	16.65	0.45	0.88	
8/12/2022	16.40	16.55	0.15	0	
8/18/2022	16.45	16.61	0.16	0	
8/25/2022	17.18	17.21	0.03	0	
9/1/2022	16.56	16.71	0.15	0	
9/9/2022	16.45	16.51	0.06	0	
9/13/2022	16.31	16.45	0.14	0	
9/20/2022	16.28	16.65	0.37	0	
9/26/2022	16.38	16.55	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	11.58	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	14.15	14.21	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.75	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	14.15	14.21	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	17.41	17.42	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	18.91	18.92	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	14.24	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	12.4	12.41	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	-	9.42	0	0	
7/15/2022	-	8.21	0	0	
7/19/2022	-	9.21	0	0	
8/4/2022	-	9.65	0	0	
8/12/2022	-	9.41	0	0	
8/18/2022	-	9.85	0	0	
8/25/2022	-	9.91	0	0	
9/1/2022	-	9.94	0	0	
9/9/2022	-	9.68	0	0	
9/13/2022	-	9.21	0	0	
9/20/2022	-	9.85	0	0	
9/26/2022	-	9.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	8.95	9.95	1	1	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	9.75	9.76	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	8.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	10.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	9.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	15.35	15.39	0.04	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
7/8/2022	15.28	16	0.72	0	Drum-0.19
7/15/2022	15.51	15.52	0.01	0	Drum-0.6
7/19/2022	15.60	15.9	0.3	0	Drum-0.65
7/27/2022	15.50	15.51	0.01	0	Drum- 1.21
8/4/2022	15.61	15.62	0.01	0	Drum-1.62
8/11/2022	15.65	15.66	0.01	0	
8/12/2022	15.65	15.66	0.01	0	Drum-2.07
8/18/2022	15.65	16	0.35	0	Drum-2.31
8/25/2022	16.55	16.66	0.11	0	Drum-2.30
9/1/2022	15.98	15.99	0.01	0	Drum-0.82
9/9/2022	15.81	15.82	0.01	0	Drum- 1.62
9/13/2022	15.68	15.69	0.01	0	Drum-1.97
9/16/2022	15.78	15.9	0.12	0	Full ..... Drum changed
9/26/2022	15.83	15.84	0.01	0	Drum- 0.52

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 6/28/2022 stated '0.21 ft'. Approximately 56.2 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	17.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	11.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	17.05	17.12	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	-	8.4	0	0	
8/11/2022	-	8.39	0	0	
9/13/2022	-	8.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	16.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/8/2022	16.51	16.52	0.01	0	Drum-1.47
7/15/2022	16.73	16.74	0.01	0	Drum-1.49
7/19/2022	16.38	16.39	0.01	0	Drum-1.50
7/27/2022	16.80	16.81	0.01	0	Drum- 1.62
8/4/2022	16.88	16.89	0.01	0	Drum-1.71
8/12/2022	17.04	17.05	0.01	0	Drum-1.80
8/18/2022	17.08	17.1	0.02	0	Drum-1.85
8/26/2022	17.15	17.16	0.01	0	Drum-1.94
9/1/2022	17.22	17.23	0.01	0	Drum-1.95
9/9/2022	17.18	17.19	0.01	0	Drum-1.99
9/13/2022	17.12	17.13	0.01	0	Drum-2.03
9/20/2022	17.15	17.16	0.01	0	Drum-2.08
9/26/2022	17.18	17.19	0.01	0	Drum-2.25

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 6/28/2022 stated 'drum 1.45 ft'. Total amount of Free Product Recovered = 16 gallons from pump

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	8.35	8.51	0.16	0	
8/11/2022	7.80	9.25	1.45	0.5	
9/13/2022	8.73	8.9	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	11.25	11.26	0.01	0	
7/15/2022	11.45	11.46	0.01	0	
7/19/2022	11.21	11.23	0.02	0	
7/27/2022	11.71	11.78	0.07	0	
8/4/2022	11.55	11.64	0.09	0	
8/11/2022	11.78	11.95	0.17	0	
8/12/2022	11.71	12.11	0.4	0.63	
8/18/2022	11.9	12.15	0.25	0	
8/25/2022	11.78	12.96	1.18	1.06	
9/1/2022	11.85	12.61	0.76	1.25	
9/9/2022	11.95	12.74	0.79	1.25	
9/13/2022	11.71	12.63	0.92	1	
9/20/2022	11.74	12.52	0.78	1.25	
9/26/2022	11.84	12.02	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	14.60	15.12	0.52	0.75	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	10.52	10.53	0.01	0	
7/15/2022	10.75	10.76	0.01	0	
7/19/2022	10.50	10.51	0.01	0	
7/27/2022	11.10	11.11	0.01	0	
8/4/2022	10.81	10.82	0.01	0	
8/11/2022	11.32	11.33	0.01	0	
8/12/2022	10.96	10.97	0.01	0	
8/18/2022	11.35	11.36	0.01	0	
8/25/2022	11.08	11.09	0.01	0	
9/1/2022	11.14	11.15	0.01	0	
9/9/2022	11.11	11.12	0.01	0	
9/13/2022	11.05	11.06	0.01	0	
9/20/2022	11.08	11.09	0.01	0	
9/26/2022	11.13	11.14	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	13.06	13.22	0.16	0	
7/15/2022	13.42	13.88	0.46	0.5	
7/19/2022	12.98	13.16	0.18	0	
7/27/2022	13.45	14.35	0.9	0.5	
8/4/2022	13.35	14.35	1	1.5	
8/12/2022	13.43	14.7	1.27	7	
8/18/2022	13.65	14.65	1	1.25	
8/25/2022	13.98	14.94	0.96	2	
9/1/2022	13.72	14.92	1.2	1.75	
9/9/2022	13.63	14.59	0.96	2	
9/13/2022	13.68	14.12	0.44	0	
9/20/2022	13.58	14.48	0.9	2	
9/26/2022	13.78	13.99	0.21	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	9.85	9.89	0.04	0	
7/15/2022	10.05	10.09	0.04	0	
7/19/2022	9.83	9.89	0.06	0	
7/27/2022	10.50	10.62	0.12	0	
8/4/2022	10.18	10.35	0.17	0	
8/11/2022	10.72	10.96	0.24	0	
8/12/2022	10.31	10.49	0.18	0	
8/18/2022	10.69	11.19	0.5	0.5	
8/25/2022	10.45	10.46	0.01	0	
9/1/2022	10.88	11.58	0.70	1.5	
9/9/2022	10.45	10.54	0.09	0	
9/13/2022	10.38	10.61	0.23	0.38	
9/20/2022	10.31	10.39	0.08	0	
9/26/2022	10.44	10.61	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	14.24	14.29	0.05	0	
7/15/2022	14.32	14.39	0.07	0	
7/19/2022	14	14.12	0.12	0	
7/27/2022	14.52	14.9	0.38	0.25	
8/4/2022	14.45	14.95	0.50	0.94	
8/12/2022	14.55	14.73	0.18	0	
8/18/2022	14.75	15.12	0.37	0.5	
8/25/2022	14.75	15.22	0.47	0.63	
9/1/2022	14.82	14.98	0.16	0	
9/9/2022	14.71	14.85	0.14	0	
9/13/2022	14.72	14.89	0.17	0	
9/20/2022	11.05	11.06	0.01	0	
9/26/2022	14.85	15.01	0.16	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	10.59	10.73	0.14	0	
7/15/2022	10.65	10.66	0.01	0	
7/19/2022	10.55	10.65	0.1	0	
7/27/2022	10.71	10.84	0.13	0	
8/4/2022	10.78	11	0.22	0.5	
8/12/2022	10.88	10.94	0.06	0	
8/18/2022	10.90	11.05	0.15	0	
8/25/2022	11.01	11.29	0.28	0.63	
9/1/2022	11.18	11.21	0.03	0	
9/9/2022	11.12	11.14	0.02	0	
9/13/2022	11.15	11.25	0.1	0	
9/20/2022	14.71	14.82	0.11	0	
9/26/2022	11.08	11.31	0.23	0	

*Measured height of Free Product accumulated in drum. Spill Buster ™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	12.66	12.81	0.15	0	
7/15/2022	12.85	13.01	0.16	0	
7/19/2022	12.65	12.78	0.13	0	
7/27/2022	13.05	13.31	0.26	0.13	
8/4/2022	12.94	13.1	0.16	0	
8/12/2022	13.05	13.2	0.15	0	
8/18/2022	13.32	13.49	0.17	0	
8/25/2022	13.15	13.31	0.16	0	
9/1/2022	13.35	13.49	0.14	0	
9/9/2022	13.18	13.36	0.18	0	
9/13/2022	13.32	13.68	0.36	0.5	
9/20/2022	13.15	13.39	0.24	0	
9/26/2022	13.09	13.28	0.19	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.16	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	13.90	13.91	0.01	0	
8/11/2022	14.08	14.09	0.01	0	
9/13/2022	14.01	14.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	13.19	13.2	0.01	0	
8/11/2022	13.39	13.4	0.01	0	
9/13/2022	13.45	13.46	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	6.75	6.76	0.01	0	
7/15/2022	6.95	7.11	0.16	0	
7/19/2022	6.52	6.53	0.01	0	
7/27/2022	7.32	7.42	0.1	0	
8/4/2022	7.15	7.31	0.16	0	
8/12/2022	7.36	7.51	0.15	0	
8/18/2022	7.82	8	0.18	0	
8/25/2022	8.10	8.14	0.04	0	
9/1/2022	7.78	7.95	0.17	0	
9/9/2022	7.55	7.71	0.16	0	
9/13/2022	7.15	7.24	0.09	0	
9/20/2022	7.61	7.8	0.19	0	
9/26/2022	7.72	7.95	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/8/2022	14.71	14.72	0.01	0	Drum-1.67
7/15/2022	14.88	14.89	0.01	0	Drum-2.09
7/19/2022	14.52	14.53	0.01	0	Drum-2.20
7/27/2022	14.71	14.72	0.01	0	Drum-2.25
8/4/2022	15.5	16.01	0.51	0	Drum- New*
8/12/2022	15.11	15.12	0.01	0	Drum-0.84
8/18/2022	15.15	15.16	0.01	0	Drum-1.42
8/25/2022	15.27	15.28	0.01	0	Drum-1.99
9/1/2022	15.24	15.27	0.03	0	Drum-2.26
9/9/2022	15.45	15.46	0.01	0	Drum-2.26
9/13/2022	15.18	15.19	0.01	0	Drum-0.51
9/20/2022	15.28	15.29	0.01	0	Drum-0.92
9/26/2022	15.27	15.28	0.01	0	Drum-1.26

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 6/28/2022 stated 'drum 1.22 ft'. Total amount of Free Product Recovered = 50.8 gallons.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	9.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	9.21	9.44	0.23	0	
7/15/2022	9.33	9.51	0.18	0	
7/19/2022	9.1	9.32	0.22	0.25	
7/27/2022	9.72	9.91	0.19	0	
8/4/2022	9.55	10.15	0.6	1	
8/12/2022	9.59	10.15	0.56	0.88	
8/18/2022	10.11	10.15	0.04	0	
8/25/2022	9.63	10.39	0.76	0.75	
9/1/2022	10.21	10.39	0.18	0	
9/9/2022	9.61	10.05	0.44	1.25	
9/13/2022	9.64	9.79	0.15	0	
9/20/2022	9.62	10.42	0.8	1.25	
9/26/2022	9.72	9.89	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	8.65	8.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	7.95	7.96	0.01	0	
8/11/2022	-	8.19	0	0	
9/13/2022	-	8.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	-	8.3	0	0	
8/11/2022	8.49	8.5	0.01	0	
9/13/2022	-	8.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/27/2022	-	9.7	0	0	
8/11/2022	8.75	8.76	0.01	0	
9/13/2022	9.08	9.09	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	12.8	12.81	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	13.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2022	-	14.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	-	8.21	0	0	
7/15/2022	-	8.29	0	0	
7/19/2022	-	8.19	0	0	
7/27/2022	8.85	8.86	0.01	0	
8/4/2022	9.10	9.15	0.05	0	
8/12/2022	8.58	8.76	0.18	0	
8/18/2022	9.12	9.25	0.13	0	
8/25/2022	9.01	9.02	0.01	0	
9/1/2022	8.82	9.11	0.29	0	
9/9/2022	8.75	8.83	0.08	0	
9/13/2022	8.75	8.81	0.06	0	
9/20/2022	8.85	8.93	0.08	0	
9/26/2022	9.10	9.28	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	8.22	8.35	0.13	0	
7/15/2022	8.28	8.39	0.11	0	
7/19/2022	8.11	8.25	0.14	0	
7/27/2022	8.45	8.62	0.17	0	
8/4/2022	8.55	8.67	0.12	0	
8/12/2022	8.58	8.76	0.18	0.13	
8/18/2022	9.00	9.10	0.10	0	
8/25/2022	8.95	9.86	0.91	0.13	
9/1/2022	8.83	9.01	0.18	0	
9/9/2022	8.73	8.89	0.16	0	
9/13/2022	8.75	8.76	0.01	0	
9/20/2022	8.78	9.11	0.33	0	
9/26/2022	9.31	10.01	0.7	0.19	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	-	8.18	0	0	
7/15/2022	-	8.19	0	0	
7/19/2022	-	8.01	0	0	
7/27/2022	-	8.41	0	0	
8/4/2022	-	8.55	0	0	
8/12/2022	-	8.59	0	0	
8/18/2022	-	9.19	0	0	
8/25/2022	-	9.09	0	0	
9/1/2022	-	8.88	0	0	
9/9/2022	-	8.82	0	0	
9/13/2022	-	8.78	0	0	
9/20/2022	-	8.85	0	0	
9/26/2022	-	9.15	0	0	

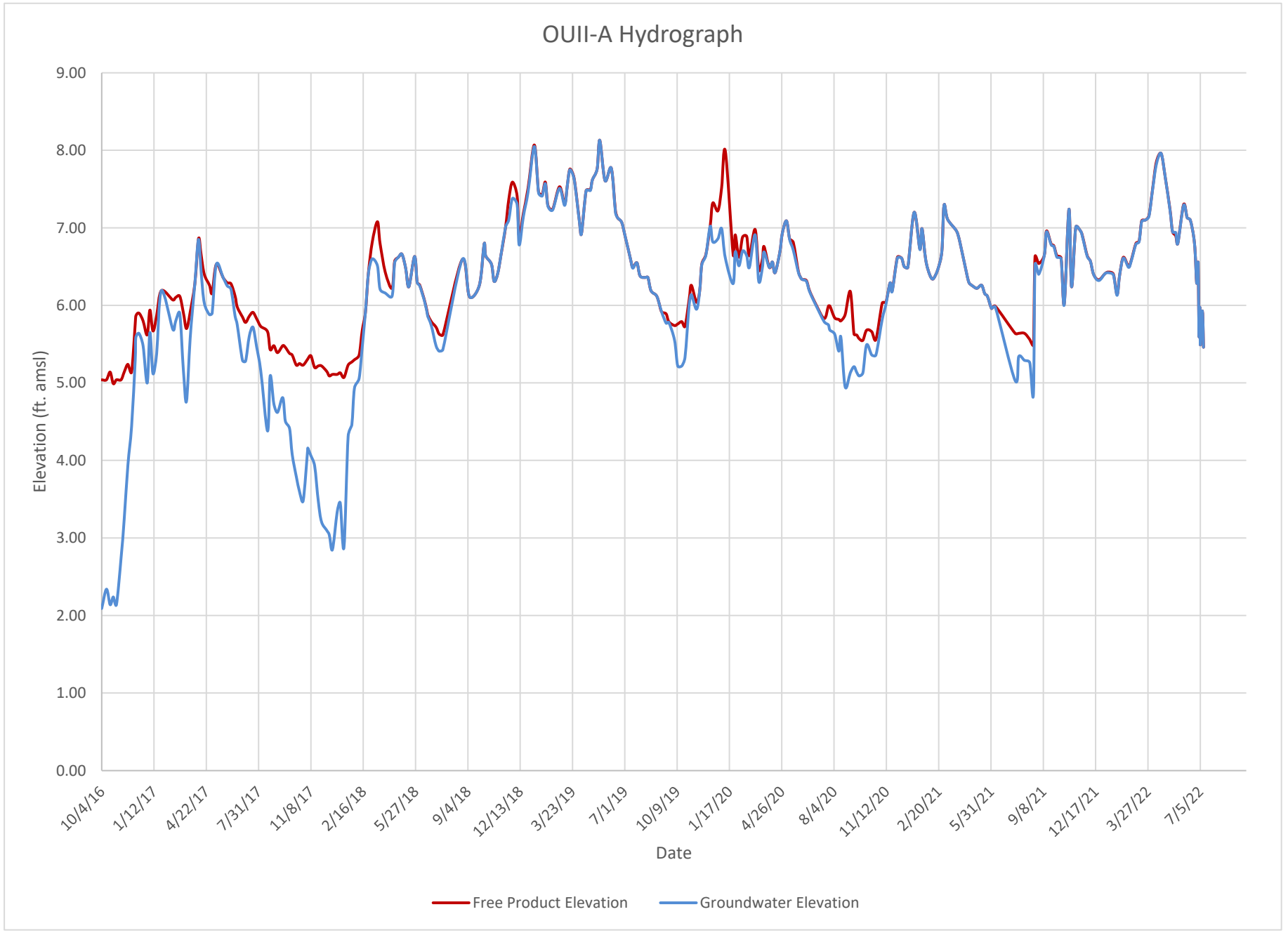
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	8.39	8.53	0.14	0	
7/15/2022	8.49	8.71	0.22	0	
7/19/2022	8.02	8.21	0.19	0	
7/27/2022	8.60	9.20	0.6	0	
8/4/2022	8.70	8.71	0.01	0	
8/12/2022	8.75	9.91	1.16	0.13	
8/18/2022	8.85	10.65	1.8	0.13	
8/25/2022	9.58	10.69	1.11	0	
9/1/2022	8.99	9.91	0.92	0.13	
9/9/2022	8.09	9.83	1.74	0.13	
9/13/2022	8.95	9.08	0.13	0	
9/20/2022	8.91	9.75	0.84	0.13	
9/26/2022	8.93	9.85	0.92	0.5	

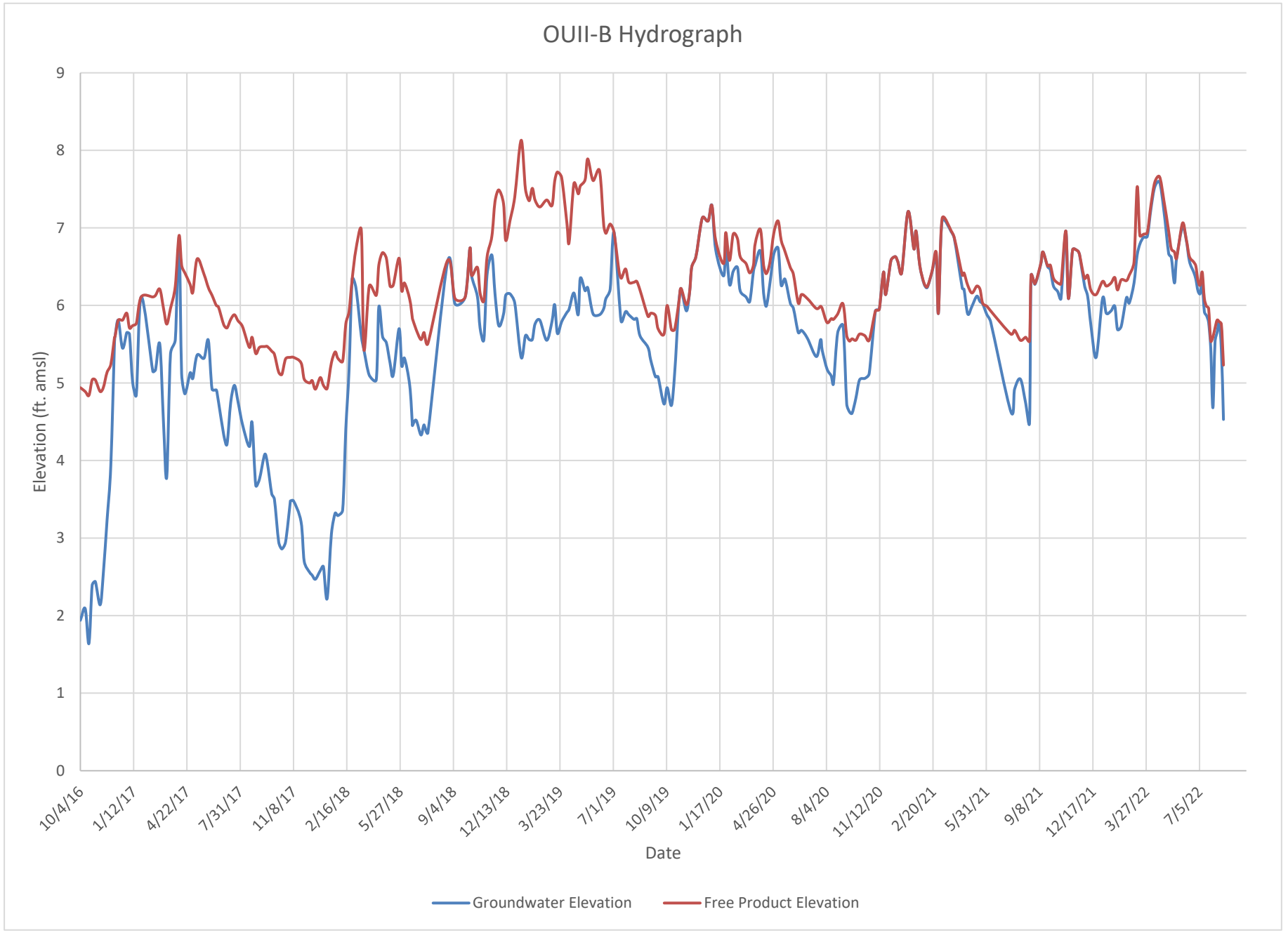
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	-	8.38	0	0	
7/15/2022	-	8.53	0	0	
7/19/2022	-	8.22	0	0	
7/27/2022	-	8.63	0	0	
8/4/2022	-	9.28	0	0	
8/12/2022	-	8.82	0	0	
8/18/2022	-	9.39	0	0	
8/25/2022	-	9.25	0	0	
9/1/2022	-	9.21	0	0	
9/9/2022	-	8.95	0	0	
9/13/2022	-	9.02	0	0	
9/20/2022	-	8.92	0	0	
9/26/2022	-	9.41	0	0	

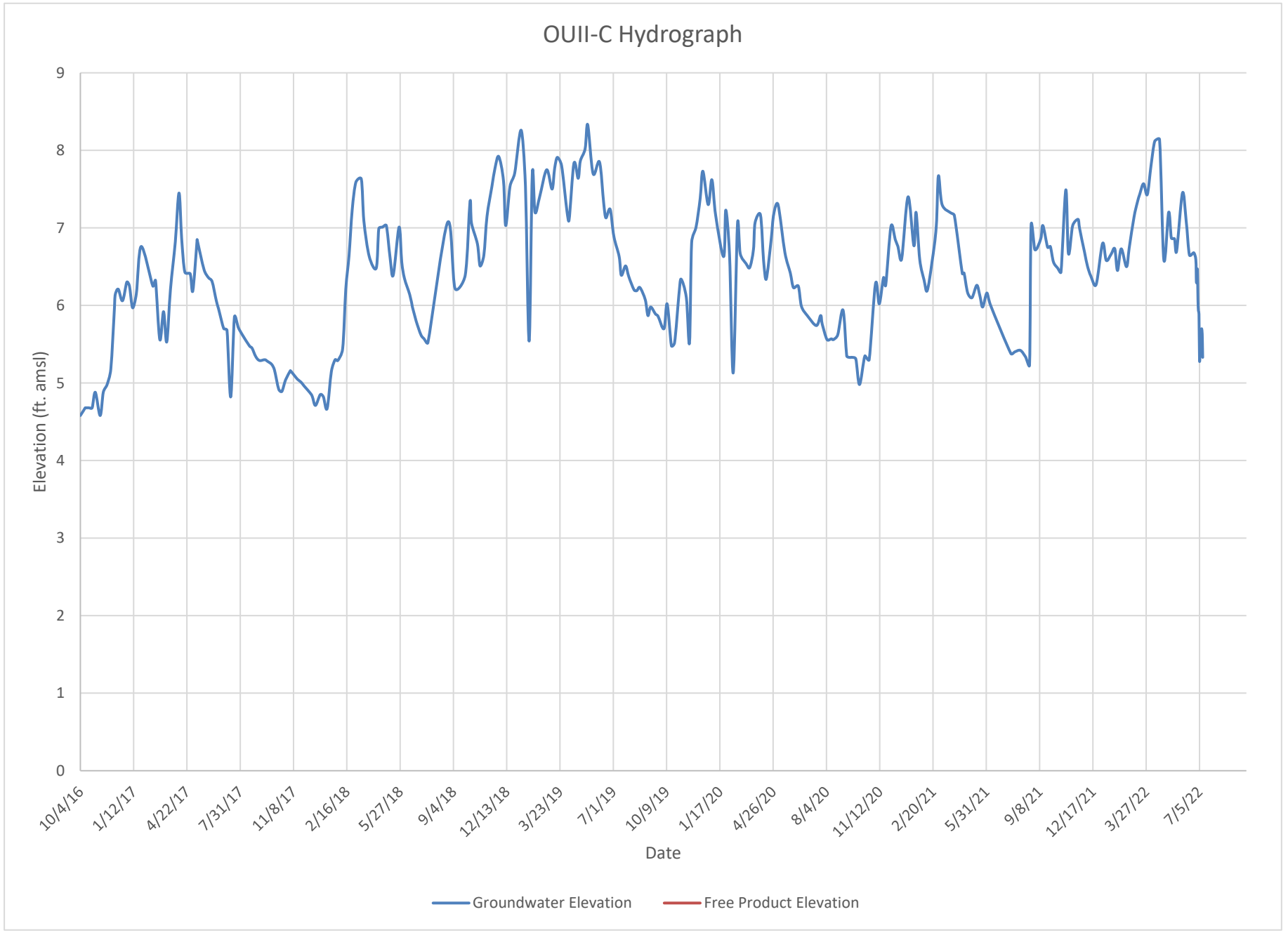
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/8/2022	-	6.09	0	0	
7/15/2022	-	6.23	0	0	
7/19/2022	-	6	0	0	
7/27/2022	-	6.38	0	0	
8/4/2022	-	6.99	0	0	
8/12/2022	6.68	6.69	0.01	0	
8/18/2022	-	7.75	0	0	
8/25/2022	7.01	7.03	0.02	0	
9/1/2022	7.05	7.06	0.01	0	
9/9/2022	6.61	6.62	0.01	0	
9/13/2022	6.65	6.69	0.04	0	
9/20/2022	6.75	7.05	0.3	0	
9/26/2022	7.71	7.89	0.18	0	

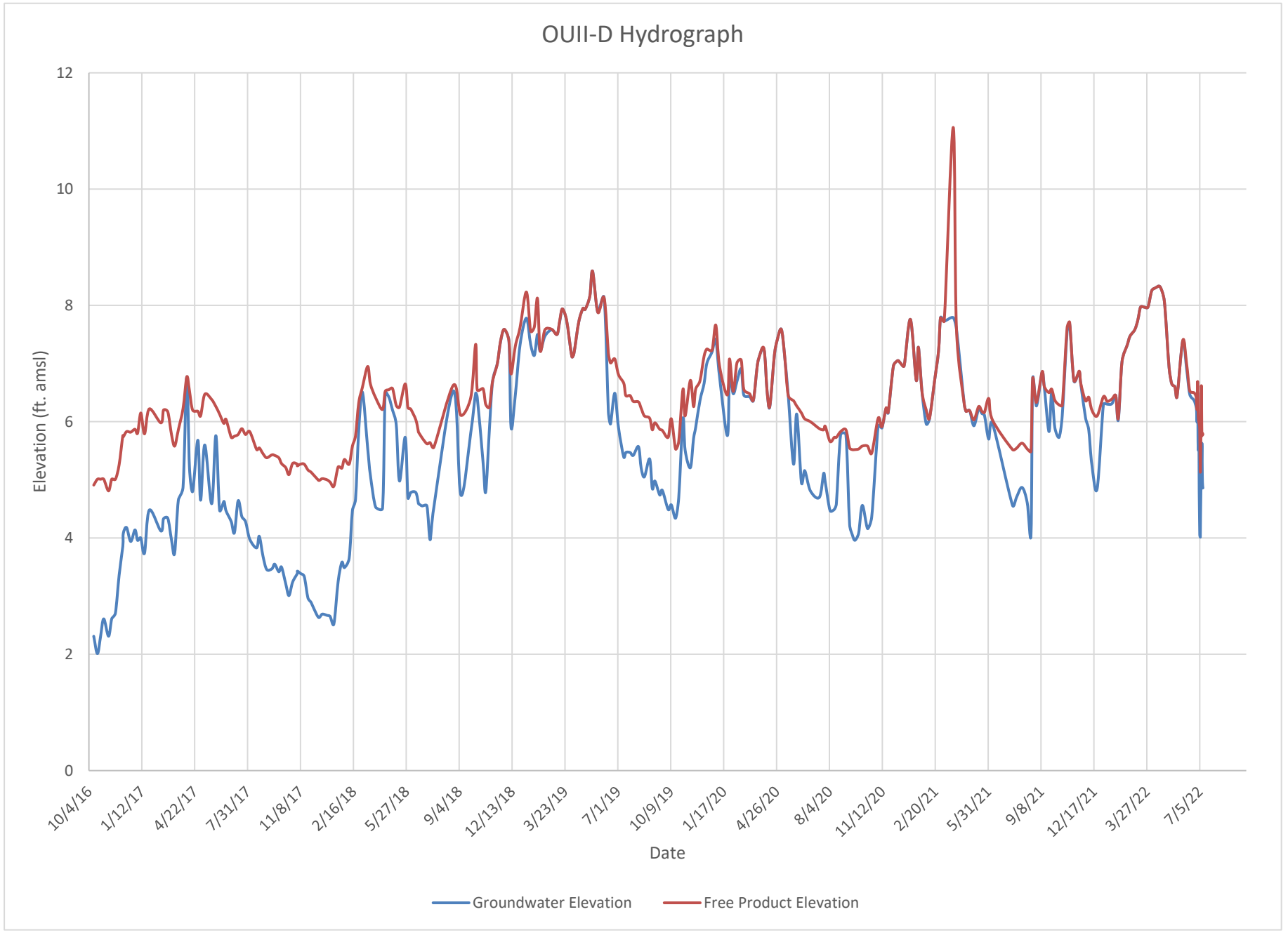
ATTACHMENT B

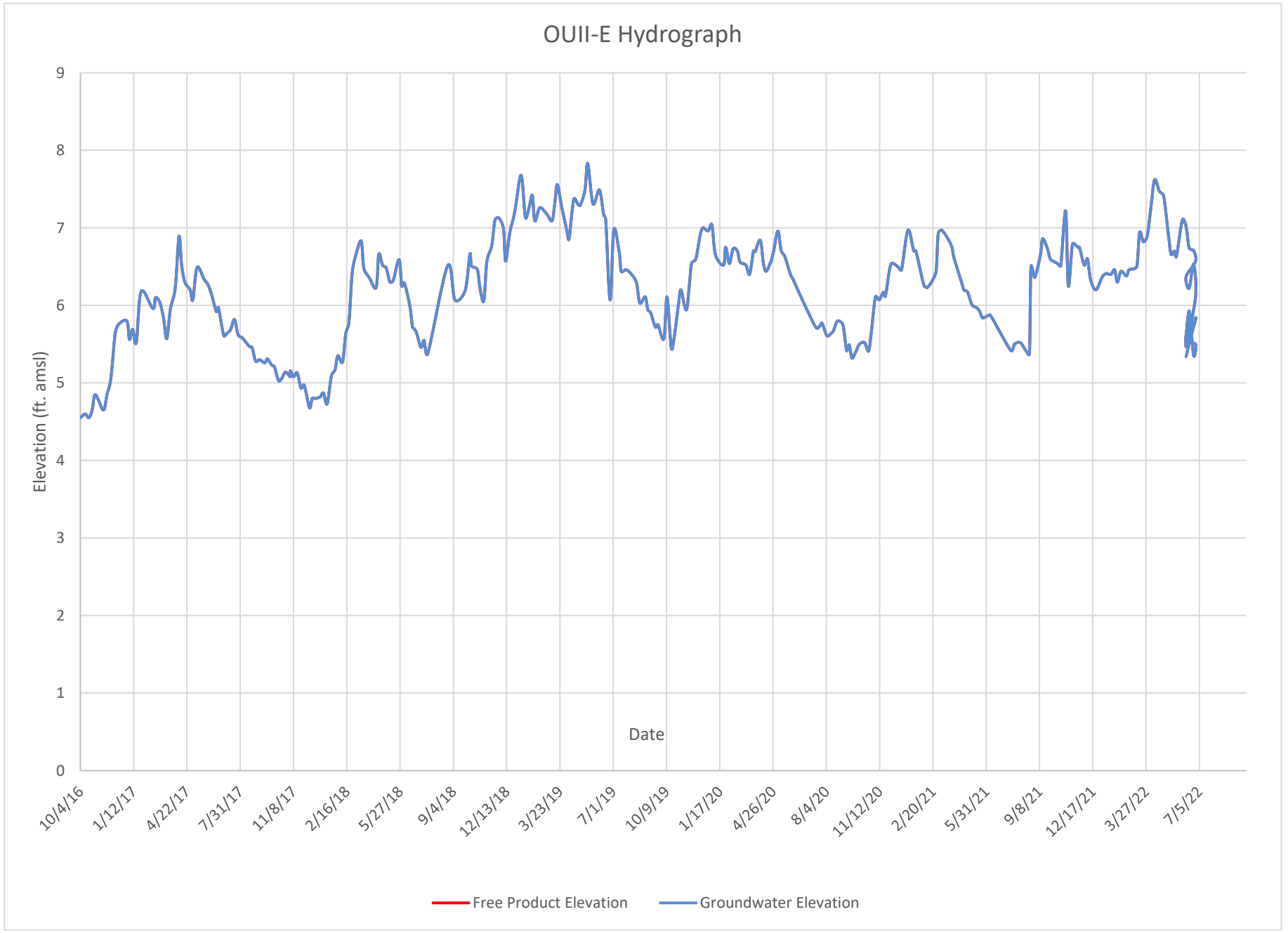
Off-Site Monitoring Well Hydrographs

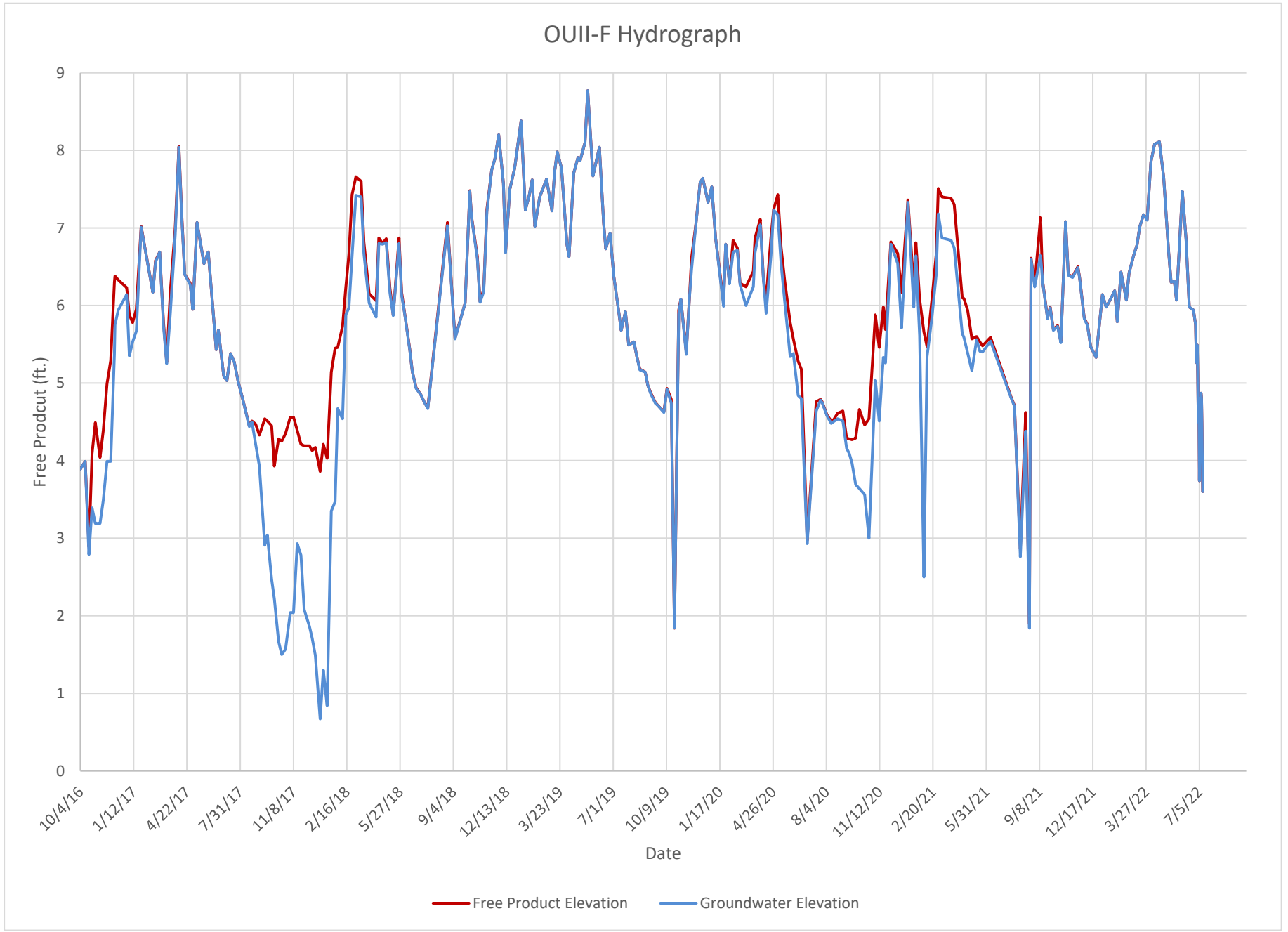

OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT C

Analytical Laboratory Report

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Kenny Mekeel

Report Date: 09/20/2022
Client Project ID: 09/2022 Harmon OU II Well AI2-3 #2
York Project (SDG) No.: 22I0806

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 09/20/2022
Client Project ID: 09/2022 Harmon OU II Well AI2-3 #2
York Project (SDG) No.: 22I0806

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Kenny Mekeel

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 15, 2022 and listed below. The project was identified as your project: **09/2022 Harmon OU II Well AI2-3 #2**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22I0806-01	Harmon OU II Well AI2-3 no. 2	Oil	09/13/2022	09/15/2022

General Notes for York Project (SDG) No.: 22I0806

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Cassie L. Mosher **Date:** 09/20/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: Harmon OU II Well AI2-3 no. 2 **York Sample ID:** 22I0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22I0806	09/2022 Harmon OU II Well AI2-3 #2	Oil	September 13, 2022 1:00 pm	09/15/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.55	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	09/18/2022 18:56	09/20/2022 12:56	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.55	1	EPA 8082A Certifications:	09/18/2022 18:56	09/20/2022 12:56	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*130 %*	*30-150*

Analytical Batch Summary

Batch ID: BI20888 **Preparation Method:** Oil Preparation for GC **Prepared By:** BCJ

YORK Sample ID	Client Sample ID	Preparation Date
22I0806-01	Harmon OU II Well AI2-3 no. 2	09/18/22
BI20888-BLK1	Blank	09/18/22
BI20888-SRM1	Reference	09/18/22

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20888 - Oil Preparation for GC											
Blank (BI20888-BLK1)								Prepared: 09/18/2022 Analyzed: 09/19/2022			
Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
Surrogate: Tetrachloro-m-xylene	*19.9*		*"*	*20.0*		*99.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*24.3*		*"*	*20.0*		*122*	*30-150*				
Reference (BI20888-SRM1)								Prepared: 09/18/2022 Analyzed: 09/19/2022			
Aroclor 1260	90.2	5.00	mg/kg	100		90.2	19.06-140.6				
Surrogate: Tetrachloro-m-xylene	*17.7*		*"*	*20.0*		*88.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*23.7*		*"*	*20.0*		*118*	*30-150*				
Batch Y2I1942 - BI20998											
Aroclor Reference (Y2I1942-ARC1)								Prepared & Analyzed: 09/19/2022			
Surrogate: Tetrachloro-m-xylene	*0.200*		*ug/mL*	*0.200*		*100*					
Surrogate: Decachlorobiphenyl	*0.184*		*"*	*0.200*		*92.0*					

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22I0806

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675 | Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: mnr	Company: Tom Roszak	Company: mnr	Harmon OUII well AI2-3#2	RUSH - Next Day
Address:	Address: Kenny Mekeel	Address:	YOUR Project Name	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Justin Jamison

Samples Collected by: (print AND sign your name)

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York Y	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package	Deliverables	NJDEP SRP HazSite	
O - Oil / Other	Other:		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Harmon OU II well AI2-3#2		9/13/22 1:00	PCB's 3	1 LTR Amber Preserved
				Label Jar A, B, C

Comments: Email To: csmelt@zoymail Kmekeel@mnr.org

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Office	9-15-22 12:00	Chris York	9-15-22 12:00	Chris York	9-15-22 1453
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	9/15/22 1453 5.3 Degrees C

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: OCTOBER 1, 2022 THROUGH DECEMBER 31, 2022

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between October 1, 2022 and December 31, 2022 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Note: Metro-North Railroad (MNR) received a letter titled "2020 Site Management Plan Status Reports" from the New York State Department of Environmental Conservation (NYSDEC), dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address other comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. Comments were received from the NYSDEC regarding the Corrective Measures Work Plan on March 8, 2022. A response was provided to the NYSDEC on April 19, 2022 and comments were received from the NYSDEC regarding this response on July 29, 2022. Following discussions between MNR, NYSDEC, and DAY representatives, a document describing an alternative approach to assess the free product impact in the OUII area was submitted to the NYSDEC on August 31, 2022. To date, the NYSDEC has not responded to the August 31, 2022 submittal. However, NYSDEC representatives visited the Site on September 1, 2022, and in an email dated October 6, 2022, the NYSDEC stated: "…*that there potentially exists additional information regarding potential off-site migration of contamination. Previously, the Department was seeking that MNRR pursue additional measures to address this potential migration however based upon the site visit if you obtain the groundwater sampling data from the Former Croton Sanitary Landfill (FDCPSL) and provide it to the department, this may adequately address our previous concerns."* A response was received from the Former Croton Sanitary Landfill on January 5, 2023. The information provided in this response will be summarized in the status report for the period January 1, 2023 to March 31, 2023.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured between November 9 to November 14, 2022 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: During the report period, Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product) were used to remove free product from wells RW-1, FA4-8, and AI2-3; and a bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product.

A Spill Buster™ was installed in well AI2-3 in November 2016, and subsequent to its installation approximately 128 gallons of free product were removed in 2016; approximately 301 gallons in 2017; approximately 120 gallons in 2018; approximately 116 gallons in 2019; approximately 8.2 gallons in 2020; and, approximately 50 gallons in 2021. In 2022, approximately 132 gallons of free product were removed from well AI2-3 (i.e., approximately 26.8 gallons between January 1, 2022 and March 31, 2022, approximately 1 gallon between April 1, 2022 and June 30, 2022, approximately 56.2 gallons between July 1, 2022 and September 30, 2022, and approximately 47.8 gallons during the current report period). The reason for the varying amounts of free product removed from well AI2-3 is not known.

The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period, and a summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and September 30, 2022) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between October 1, 2022 and December 31, 2022) and the preceding report period (i.e., between July 1, 2022 and September 30, 2022) is included as Figure 2.

During the current reporting period, approximately 176 gallons of free product was removed from wells at the Site. The majority of the free product was removed from NAPL Area L4 (i.e., approximately 125 gallons). The total amount of free product removed in the previous reporting period (i.e., between July 1, 2022 and September 30, 2022) was approximately 163 gallons. Since January 1, 2013, approximately 4,970 gallons of free product or approximately 113 gallons per reporting period (i.e., every three months) has been removed from the Site.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. On October 6, 2022, samples of free product were collected from three full drums (i.e., used to collect free product from miscellaneous wells); and, on November 11, 2022, samples of free product were collected from four full drums (i.e., used to collect free product from well RW-1). The samples were submitted to York Analytical Laboratories, Inc. (York) for testing of polychlorinated biphenyls (PCBs). As presented in the reports submitted by York (refer to Attachment B), PCBs were not detected at concentrations greater than 50 parts per million (ppm). Three drums were removed from the Site for on October 18, 2022 for disposal at EQ Detroit, Inc. A copy of the waste disposal manifest is provided in Attachment B.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2022 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is scheduled to be completed in March/April 2023. During this event, samples are scheduled to be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples are also scheduled to be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the upcoming sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.]

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F. Free product was not detected in wells OUII-C or OUII-E. Approximately 0.06 gallons of free product was recovered from monitoring well OU-II-A and approximately 0.25 gallons of free product was recovered from monitoring well OU-II-D. Free product was not recovered from monitoring wells OUII-B, OUII-C, OUII-E, and OUII-F.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected typically decreases when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on October 27, 2022 by MNR.

During the October 27, 2022 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on October 27, 2022 is included in Attachment D. Photographs of select monitoring wells are also included in Appendix D.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between January 1, 2023 and March 31, 2023), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a Spill Buster™ in one of these wells is functional, but that limited free product remains in that location, the Spill Buster™ will be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5). Free product detected in wells not containing a Spill Buster™ system should be removed using a bailer or portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are

below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022. If the apparent blockage observed during the August 2022 groundwater sampling event in monitoring well VE 3-1 cannot be removed, a replacement well may be required.

The next OU-I/OU-II inspection is due on or about April 30, 2023. The next groundwater sampling and testing will be completed on, or about, August 31, 2023. A SMP status report for the work completed during the upcoming period (i.e., January 1, 2023 through March 31, 2023) will be submitted in April 2023.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

A summary of relevant information provided in the response received from the Former Croton Sanitary Landfill on January 5, 2023 will be summarized in the status report for the period January 1, 2023 to March 31, 2023.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: October 1, 2022 through December 31, 2022
Table 2: Historic Free Product Removal Totals: December 1, 2012 through September 30, 2022
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: November 2022
Figure 2: Summary of Free Product Removal for the Report Periods October 1, 2022 – December 31, 2022 and July 1, 2022 – September 30, 2022
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: July 1, 2022 - September 30, 2022
Attachment B: Analytical Laboratory Reports, Waste Disposal Manifest
Attachment C: Off-Site Monitoring Well Hydrographs
Attachment D: Inspection Report and Photographs of Select Monitoring Wells

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: October 1, 2022 through December 31, 2022

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	2.5
Total	**2.5**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0.4
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0.38**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	47.8
VE2-1	0
Total	**47.8**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	16.2
FA4-9	0.5
FA4-10	NM
FA4-11	10.26
FA4-12	1.0
FA4-13	0
FA4-14	12.76
FA4-15	4.44
FA4-16	2.25
FA4-17	2.63
FA4-18	3.94
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	1
RW-1*	56.8
VE4-1	0
VE4-5	12.51
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0.63
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**124.92**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - September 30, 2022

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	162.81
Total	**192.305**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	22.49
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**32.482**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3	1005.23
VE2-1	0
Total	**1006.86**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	600.06
FA4-9	3.98
FA4-10	0.13
FA4-11	150.21
FA4-12	11.67
FA4-13	101.8
FA4-14	291.89
FA4-15	82.10
FA4-16	73.43
FA4-17	83.34
FA4-18	113.14
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	22.83
RW-1*	1768.6
VE4-1	0
VE4-5	220.89
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	4.93
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3546.38**

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																								
		VE 1-2														VE 1-4												VE 2-1															
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/19	DUP 6/3/2020	8/25/21	8/11/22
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																								
		VE 3-1												VE 4-11													DAY 1															
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																							
		Field Blank												Trip Blank											
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21							
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]							
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]							
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]							
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]							
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]							
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]							
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]							
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	NT	NT	NT	NT	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT							
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]							
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]							
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]							
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]							
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]							
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]							
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]							
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]							
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]							

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																				
		VE 1-2														VE 1-4														VE 2-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50]	ND [1.40]	ND [1.90]	12	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Locat																																				
		VE 3-1														VE 4-11																								
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	8/24/2021	8/11/2022											
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]										
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0		ND [5.13]	ND [5.71]	**ND [25.0]**	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]										
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]										
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]										
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**		**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]										
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]										
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**		**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]										
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]										
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**		**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]										
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**		**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]										
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]										
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]										
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]										
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**		**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]										
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]										
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50]	ND [1.40]	9.30		ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]										

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																				
		DAY 1														Field Blank																								
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22																
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]																
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]																
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]																
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]																
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**																
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]																
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**																
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]																
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**																
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**																
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]																
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]																
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]																
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**																
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]																
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]																
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50]	ND [1.40]	ND [1.90]	3.5		ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.90]	ND [2.0]																

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date										
		OUII-A		OUII-B	OUII-C		OUII-D		OUII-E		OUII-F	
		8/24/21	8/10/22	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22	8/24/21	8/10/22
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [0.75]	ND [0.13]	ND [0.26]	ND [0.91]	ND [0.26]	ND [0.13]	ND [0.26]	ND [0.13]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [0.75]	ND [0.14]	ND [0.26]	ND [0.99]	ND [0.26]	ND [0.14]	ND [0.26]	ND [0.14]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [0.75]	ND [0.17]	ND [0.26]	ND [1.20]	ND [0.26]	ND [0.17]	ND [0.26]	ND [0.17]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.84]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.87]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	14.7 D	66	28	ND [0.12]	ND [0.26]	8.30 P	0.61	ND [0.12]	0.36	2.00 P	4.8
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [0.75]	ND [0.11]	ND [0.26]	ND [0.76]	ND [0.26]	ND [0.11]	ND [0.26]	ND [0.11]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [0.75]	ND [0.12]	ND [0.26]	ND [0.84]	ND [0.26]	ND [0.12]	ND [0.26]	ND [0.12]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [0.75]	ND [0.16]	ND [0.26]	ND [1.20]	ND [0.26]	ND [0.16]	ND [0.26]	ND [0.16]	ND [0.25]
Total PCBs	0.09	14.7	66	28	ND	ND [0.26]	8.3	0.61	ND	0.36	2	4.8

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date										
		FA4-9		FA4-11	FA4-16		PGW-2		VE4-7		VE4-9	
		8/26/21	8/10/22	8/24/21	8/24/21	8/10/22	8/24/21	8/10/22	8/25/21	8/10/22	8/24/21	8/10/22
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [0.13]	ND [0.13]	ND [5.0]	ND [0.41]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.13]	ND [1.3]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [0.14]	ND [0.14]	ND [5.0]	ND [0.45]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.14]	ND [1.3]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [0.17]	ND [0.17]	ND [5.0]	ND [0.54]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.17]	ND [1.3]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.38]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.39]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1254	NS	ND [0.12]	140	0.89 P	10	67	2.1	4.2	0.35 JP	3.7	ND [0.12]	17
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [0.11]	ND [0.11]	ND [5.0]	ND [0.34]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.11]	ND [1.3]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [0.12]	ND [0.12]	ND [5.0]	ND [0.38]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.12]	ND [1.3]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [0.16]	ND [0.16]	ND [5.0]	ND [0.53]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.16]	ND [1.3]
Total PCBs	0.09	ND	140	0.89	10	67	2.1	4.2	0.35	3.7	ND	17

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Estimated Value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																									
		VE 1-2														VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	29	160	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3	22.3	34
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																									
		VE 2-1														VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																									
		VE 4-11														DAY 1											
		3/27/12	9/11/12	/11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J	16
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date									
		Field Blank									
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Guidance Values[1]	Test Location and Sample Date																
		VE 1-2	VE 1-4							VE 2-1								
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	8.2	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6
Perfluorooctanoic acid (PFOA)	10	5.2	**29**	**50**	**51.3**	15	44	43	12.3	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	**23**	7.3
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]
Perfluorooctanesulfonic acid (PFOS)	10	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55.5**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**	**60.5**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	9.7	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42	4.8
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]	ND [7.1]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]	ND [7.1]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [3.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	55.5	24	3.4	5.4	0	0	11	14	100	60.5
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date														
		VE 3-1	VE 4-11						DAY 1	Field Blank					Equipment Blank	
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	8/2/17	2017	2018	FB91119	FB6420	FB-082621	EB-082621	8/11/2022
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [8.9]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctanoic acid (PFOA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	ND [1.8]	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctanesulfonic acid (PFOS)	10	**14**	7.2	4.2	ND [10]	5.2	6.1 I	6.6	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [3.6]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [1.7]	ND [3.6]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [8.9]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.42]	ND [1.8]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [1.8]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	ND [7.1]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	2.0 J B	ND [7.1]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	ND [7.1]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [0.85]	ND [7.1]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [0.51]	ND [3.6]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [3.6]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]	ND [3.6]
PFOA & PFOS		19.6	7.2	4.2	-	-	7.5	6.6	34	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)		3.3	39	15	10.5	6.8	184.91	9.4	5.4	ND	ND	ND	ND	1.7	1.7	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	16	46.8	ND	ND	ND	ND	1.7	1.7	ND
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	NT	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77

Note:

Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:

Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- VE 4-6 (5.05 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made November 2022
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	02-2023
DRAWN BY	CPS
DATE DRAWN	02-2023
SCALE	As Noted
DATE ISSUED	02-01-2023

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

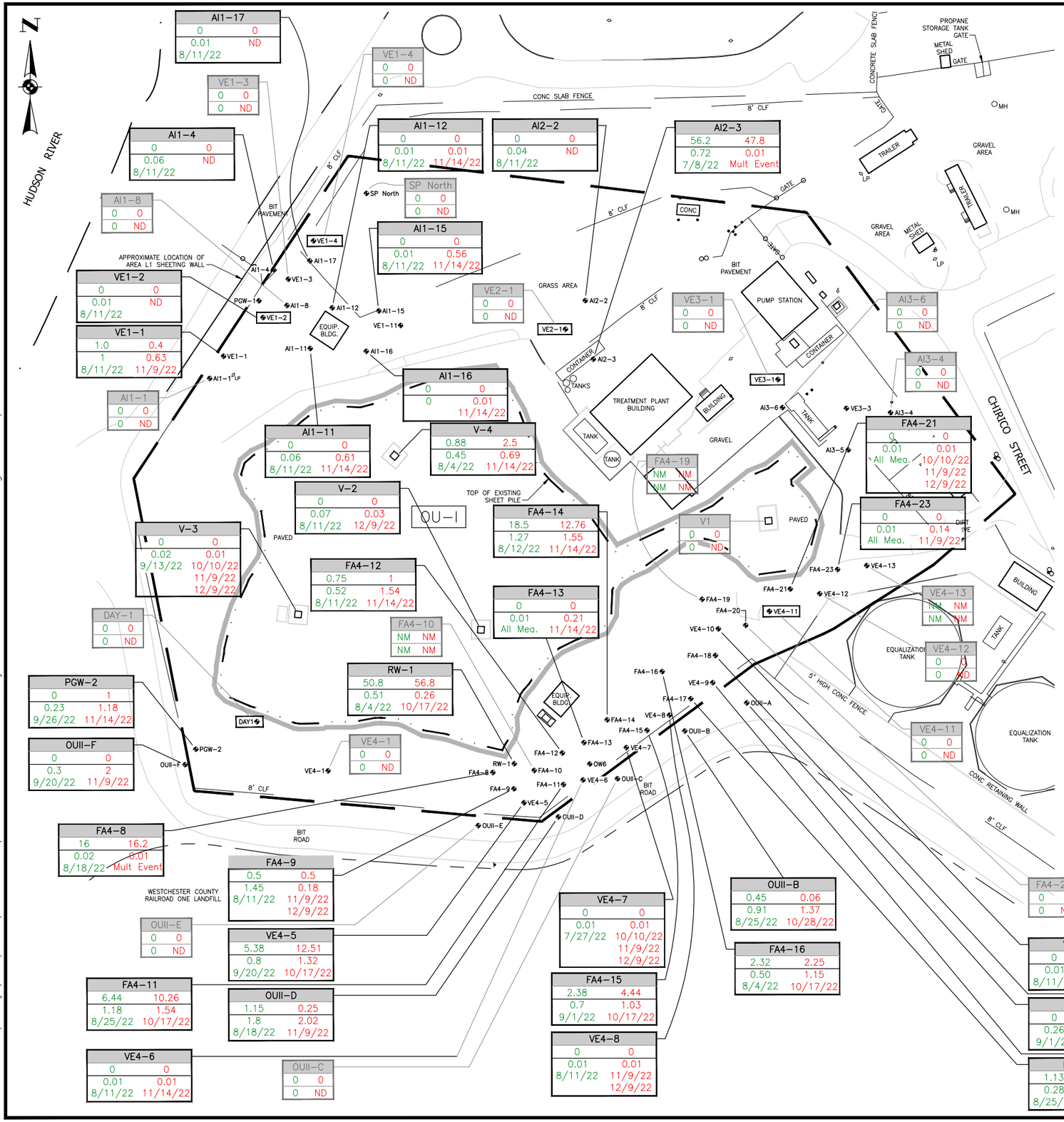
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: November 2022

Project No.
23-3680M

FIGURE 1



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells

FA4–14
18.5 12.76
1.27 1.55
8/12/22 11/14/22

- Long–Term Monitoring Well Identification
- Free Product Removed (Gallons) During Report Period
- Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period July 1, 2022 Through September 30, 2022 Shown In Green (Left)

Measurements Made During The Report Period October 1, 2022 Through December 31, 2022 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	1/2023
DATE DRAWN	1/23/2023
DATE ISSUED	1/23/2023

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

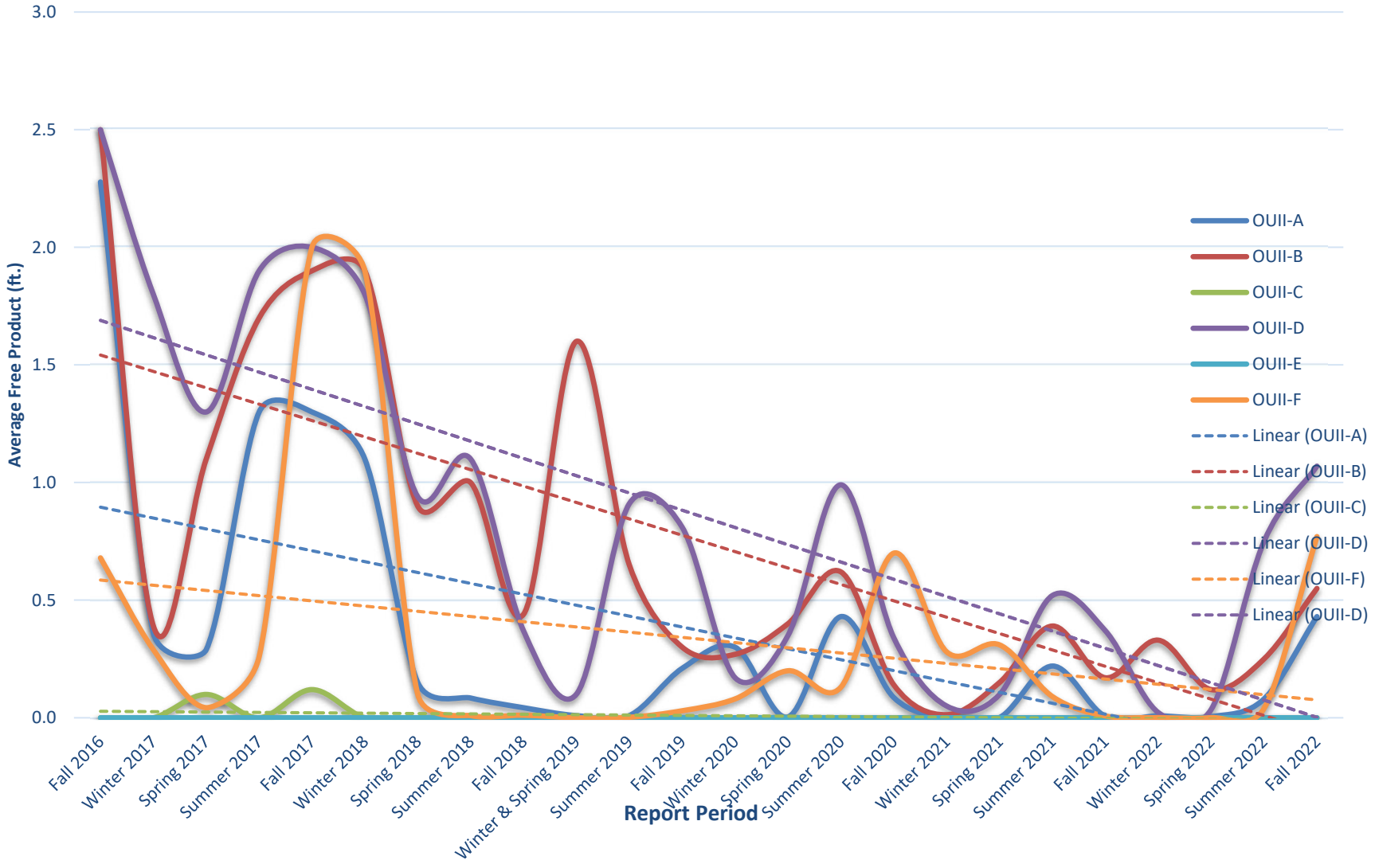
DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
July - September 2022 and October - December 2022

PROJECT NO.
22-3676M

FIGURE 2

Ref1:
Ref2:
Ref3:
Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb
Time Plotted: Monday, January 23, 2023 8:19:45 AM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Oct–Dec 2022.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
October 1, 2022 through December 31, 2022

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	13.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	13.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	14.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	14.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	0.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	-	-	-	well blocked

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	14.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	13.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	14.01	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	-	-	-	well blocked

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	16.72	0	0	
11/9/2022	-	16.84	0	0	
12/9/2022	-	16.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	17.45	17.46	0.01	0	
11/9/2022	17.36	17.37	0.01	0	
12/9/2022	17.61	17.64	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	17.05	17.06	0.01	0	
11/9/2022	17.63	17.64	0.01	0	
12/9/2022	17.41	17.42	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2022	16.42	16.59	0.17	0	
10/3/2022	16.46	16.98	0.52	1	
10/8/2022	16.50	16.65	0.15	0	
10/10/2022	16.22	16.38	0.16	0.25	
10/17/2022	15.95	16.15	0.2	0	
11/9/2022	16.65	16.83	0.18	0	
11/14/2022	16.59	17.28	0.69	0	
11/21/2022	16.65	16.88	0.23	0	
12/9/2022	16.58	17.05	0.47	1.25	
12/15/2022	16.81	17.15	0.34	0	
12/21/2022	16.00	16.31	0.31	0	
12/28/2022	15.25	15.80	0.55	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	11.70	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	8.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	13.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	13.91	14.52	0.61	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	17.61	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	19.19	19.75	0.56	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	14.41	14.42	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	12.61	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	-	9.86	0	0	
10/10/2022	-	9.35	0	0	
10/17/2022	-	9.7	0	0	
10/28/2022	-	10	0	0	
11/1/2022	-	9.91	0	0	
11/9/2022	-	10.02	0	0	
11/14/2022	-	9.63	0	0	
11/21/2022	-	10.15	0	0	
12/9/2022	-	9.97	0	0	
12/15/2022	-	9.91	0	0	
12/21/2022	-	9	0	0	
12/28/2022	-	9.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/9/2022	9.18	9.81	0.63	0.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	9.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	9.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	10.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	9.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	15.6	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2022	15.98	15.99	0.01	0	Drum-1.09
10/10/2022	15.85	15.86	0.01	0	Drum-1.53
10/17/2022	15.84	15.85	0.01	0	Drum- 1.94
10/28/2022	15.89	15.9	0.01	0	Drum- 2.38 (start new drum)
11/1/2022	15.95	15.96	0.01	0	Drum-0.5
11/9/2022	16.05	16.06	0.01	0	Drum-1.15
11/21/2022	15.94	15.95	0.01	0	Drum-1.95
12/9/2022	15.78	15.79	0.01	0	Drum-0.70
12/15/2022	15.74	15.75	0.01	0	Drum- 0.9
12/21/2022	16.52	16.53	0.01	0	Drum-1.07
12/28/2022	15.31	15.32	0.01	0	Drum-1.10

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 9/26/2022 stated '0.52 ft'. Approximately 47.8 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	11.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	11.42	11.61	0.19	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	17.41	17.59	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	8.45	0	0	
11/9/2022	-	5.6	0	0	
12/9/2022	-	8.38	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	16.68	16.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2022	17.27	17.28	0.01	0	Drum-2.19
10/10/2022	17.18	17.19	0.01	0	Drum-2.28
10/17/2022	17.1	17.11	0.01	0	Drum-2.50
10/28/2022	17.38	17.39	0.01	0	Drum- 3.05
11/1/2022	17.26	17.27	0.01	0	Drum-0.13
11/9/2022	16.41	16.42	0.01	0	Drum-0.16
11/14/2022	17.32	17.33	0.01	0	Drum- 0.23
11/21/2022	17.2	17.21	0.01	0	Drum-0.27
12/9/2022	16.78	16.79	0.01	0	Drum-0.44
12/15/2022	16.56	16.57	0.01	0	Drum-0.51
12/21/2022	16.25	16.26	0.01	0	Drum-0.53
12/28/2022	16.01	16.02	0.01	0	Drum-0.56

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 9/26/2022 stated 'drum 2.25 ft'. Total amount of Free Product Recovered = 16.2 gallons from pump

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	8.89	8.92	0.03	0	
11/9/2022	9.21	9.39	0.18	0	
12/9/2022	8.40	8.58	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	11.83	12.88	1.05	1.25	
10/10/2022	11.91	12.21	0.3	0.5	
10/17/2022	11.84	13.38	1.54	1.5	
10/28/2022	12.05	13.41	1.36	1.38	
11/1/2022	11.83	12.98	1.15	1.25	
11/9/2022	11.93	13.01	1.08	1.25	
11/14/2022	11.84	13.05	1.21	1.25	
11/21/2022	11.71	13.05	1.34	1.13	
12/9/2022	11.35	12	0.65	0.75	
12/15/2022	11.58	11.65	0.07	0	
12/21/2022	11.42	11.56	0.14	0	
12/28/2022	11.11	11.18	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	14.70	16.24	1.54	1	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	11.24	11.25	0.01	0	
10/10/2022	11.45	11.46	0.01	0	
10/17/2022	11.35	11.5	0.15	0	
10/28/2022	11.62	11.65	0.03	0	
11/1/2022	11.15	11.16	0.01	0	
11/9/2022	11.67	11.81	0.14	0	
11/14/2022	11.04	11.25	0.21	0	
11/21/2022	10.98	10.99	0.01	0	
12/9/2022	10.81	10.83	0.02	0	
12/15/2022	10.91	10.92	0.01	0	
12/21/2022	10.76	10.77	0.01	0	
12/28/2022	10.21	10.24	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	13.68	14.81	1.13	1.25	
10/10/2022	13.75	14.000	0.25	0.5	
10/17/2022	13.67	15.20	1.53	2	
10/28/2022	13.9	15.44	1.54	1.88	
11/1/2022	13.69	14.89	1.20	1.25	
11/9/2022	13.82	14.91	1.09	1.25	
11/14/2022	13.69	15.24	1.55	1.75	
11/21/2022	13.64	14.58	0.94	1.5	
12/9/2022	13.41	13.58	0.17	0	
12/15/2022	13.48	14.05	0.57	0.75	
12/21/2022	14.000	14.18	0.18	0	
12/28/2022	12.98	13.60	0.62	0.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	10.52	11.15	0.63	1.5	
10/10/2022	10.82	11	0.18	0	
10/17/2022	10.72	11.75	1.03	0	
10/28/2022	10.91	11.85	0.94	1.19	
11/1/2022	10.95	11.04	0.09	0	
11/9/2022	11.04	11.18	0.14	0.25	
11/14/2022	10.48	11.15	0.67	1	
11/21/2022	10.85	11.14	0.29	0.5	
12/9/2022	10.40	10.41	0.01	0	
12/15/2022	10.55	10.59	0.04	0	
12/21/2022	10.37	10.45	0.08	0	
12/28/2022	10.00	10.02	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	14.83	15	0.17	0	
10/10/2022	14.9	15.08	0.18	0	
10/17/2022	14.62	15.77	1.15	1.25	
10/28/2022	15.05	15.21	0.16	0	
11/1/2022	14.84	15	0.16	0	
11/9/2022	15.12	15.3	0.18	0	
11/14/2022	14.85	15.36	0.51	0.5	
11/21/2022	14.74	14.95	0.21	0	
12/9/2022	14.55	14.64	0.09	0	
12/15/2022	14.61	14.75	0.14	0	
12/21/2022	14.44	14.8	0.36	0.5	
12/28/2022	-	14.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	11.16	11.53	0.37	1.13	
10/10/2022	11.05	11.15	0.1	0	
10/17/2022	11.01	11.37	0.36	0	
10/28/2022	11.18	11.35	0.17	0	
11/1/2022	11.14	11.41	0.27	0.5	
11/9/2022	11.25	11.38	0.13	0	
11/14/2022	13.53	14.16	0.63	1	
11/21/2022	11.11	11.15	0.04	0	
12/9/2022	10.61	10.64	0.03	0	
12/15/2022	10.75	10.76	0.01	0	
12/21/2022	10.61	10.63	0.02	0	
12/28/2022	10.21	10.34	0.13	0	

*Measured height of Free Product accumulated in drum. Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	13.28	13.84	0.56	0.75	
10/10/2022	13.45	13.55	0.1	0	
10/17/2022	13.1	13.58	0.48	1.25	
10/28/2022	13.55	13.71	0.16	0	
11/1/2022	13.22	13.65	0.43	0.56	
11/9/2022	13.3	13.48	0.18	0	
11/14/2022	12.11	12.92	0.81	0.75	
11/21/2022	13.15	13.35	0.2	0	
12/9/2022	13.01	13.1	0.09	0	
12/15/2022	13.11	13.21	0.1	0	
12/21/2022	13.01	13.42	0.41	0.63	
12/28/2022	12.62	12.81	0.19	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	13.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	14.01	14.02	0.01	0	
11/9/2022	14.22	14.23	0.01	0	
12/9/2022	14.05	14.06	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	13.5	13.52	0.02	0	
11/9/2022	13.66	13.80	0.14	0	
12/9/2022	13.35	13.36	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	7.64	7.81	0.17	0	
10/10/2022	7.45	7.62	0.17	0	
10/17/2022	7.52	7.79	0.27	0	
10/28/2022	7.7	7.87	0.17	0	
11/1/2022	7.35	7.48	0.13	0	
11/9/2022	7.85	7.95	0.1	0	
11/14/2022	7.07	8.25	1.18	1	
11/21/2022	7.21	7.38	0.17	0	
12/9/2022	6	6.15	0.15	0	
12/15/2022	6.3	6.48	0.18	0	
12/21/2022	6.18	6.3	0.12	0	
12/28/2022	5.49	6.01	0.52	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2022	15.36	15.37	0.01	0	Drum-1.64
10/10/2022	15.3	15.31	0.01	0	Drum-2.02
10/17/2022	15.16	15.42	0.26	0	Drum- 2.31
10/28/2022	15.28	15.3	0.02	0	Drum-2.29
11/1/2022	15.87	15.88	0.01	0	
11/9/2022	15.52	15.53	0.01	0	Drum- 0.46
11/14/2022	15.41	15.42	0.01	0	Drum-0.72
11/21/2022	15.27	15.28	0.01	0	Drum-1.0
12/9/2022	14.89	14.9	0.01	0	Drum-1.55
12/15/2022	15	15.01	0.01	0	Drum-1.56
12/21/2022	14.85	14.86	0.01	0	Drum-2.60
12/28/2022	14.55	14.56	0.01	0	Drum-1.60

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 9/26/2022 stated 'drum 1.26 ft'. Total amount of Free Product Recovered = 56.8 gallons.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	9.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	9.75	10.95	1.2	1.38	
10/10/2022	10.05	10.22	0.17	0	
10/17/2022	9.57	10.89	1.32	1.5	
10/28/2022	10.21	11.2	0.99	4	
11/1/2022	9.75	9.91	0.16	0	
11/9/2022	9.81	10.38	0.57	1	
11/14/2022	10.15	11.05	0.9	1.5	
11/21/2022	10.14	10.78	0.64	1	
12/9/2022	9.7	10.55	0.85	1	
12/15/2022	9.85	10.1	0.25	0.5	
12/21/2022	9.45	9.85	0.4	0.63	
12/28/2022	9.35	9.75	0.4	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	7.49	7.50	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	8.35	8.36	0.01	0	
11/9/2022	8.55	8.56	0.01	0	
12/9/2022	7.61	7.62	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	8.7	0	0	
11/9/2022	8.88	8.89	0.01	0	
12/9/2022	8.25	8.26	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	9.05	9.2	0.15	0	
11/9/2022	9.04	9.14	0.1	0	
12/9/2022	8.45	8.61	0.16	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	12.99	13.62	0.63	0.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	15.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2022	-	14.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	9.35	9.80	0.45	0.06	
10/10/2022	9.41	9.51	0.10	0	
10/17/2022	9.13	9.38	0.25	0	
10/28/2022	9.28	10.55	1.27	0	
11/1/2022	9.25	10.20	0.95	0	
11/9/2022	8.81	10.15	1.34	0	
11/14/2022	8.78	9.42	0.64	0	
11/21/2022	8.78	8.91	0.13	0	
12/9/2022	-	8.67	0	0	
12/15/2022	-	8.86	0	0	
12/21/2022	-	8.55	0	0	
12/28/2022	-	8.38	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	9.25	9.80	0.55	0.06	
10/10/2022	9.28	9.32	0.04	0	
10/17/2022	8.72	9.25	0.53	0	
10/28/2022	9.21	10.58	1.37	0	
11/1/2022	8.82	10.09	1.27	0	
11/9/2022	8.85	10.01	1.16	0	
11/14/2022	8.83	9.92	1.09	0	
11/21/2022	8.77	9.41	0.64	0	
12/9/2022	-	8.25	0	0	
12/15/2022	-	8.72	0	0	
12/21/2022	-	8.15	0	0	
12/28/2022	-	8.0000	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	-	9.42	0	0	
10/10/2022	-	9.38	0	0	
10/17/2022	-	8.78	0	0	
10/28/2022	-	9.42	0	0	
11/1/2022	-	8.86	0	0	
11/9/2022	-	8.91	0	0	
11/14/2022	-	8.86	0	0	
11/21/2022	-	8.79	0	0	
12/9/2022	-	7.61	0	0	
12/15/2022	-	8.42	0	0	
12/21/2022	-	7.99	0	0	
12/28/2022	-	7.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	9.01	9.02	0.01	0	
10/10/2022	9.11	9.12	0.01	0	
10/17/2022	8.95	9.88	0.93	0	
10/28/2022	9.08	10.89	1.81	0.25	
11/1/2022	9.01	10.85	1.84	0	
11/9/2022	8.99	11.01	2.02	0	
11/14/2022	9.04	10.31	1.27	0	
11/21/2022	8.91	10.09	1.18	0	
12/9/2022	8.50	9.40	0.90	0	
12/15/2022	8.68	9.60	0.92	0	
12/21/2022	8.35	9.26	0.91	0	
12/28/2022	8.18	9.20	1.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	-	9.60	0	0	
10/10/2022	-	9.38	0	0	
10/17/2022	-	8.95	0	0	
10/28/2022	-	9.58	0	0	
11/1/2022	-	9.11	0	0	
11/9/2022	-	9.05	0	0	
11/14/2022	-	9.18	0	0	
11/21/2022	-	8.99	0	0	
12/9/2022	-	8.61	0	0	
12/15/2022	-	9.01	0	0	
12/21/2022	-	8.75	0	0	
12/28/2022	-	8.43	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	6.90	7.05	0.15	0	
10/10/2022	6.85	6.98	0.13	0	
10/17/2022	6.58	7.72	1.14	0	
10/28/2022	7.15	9.05	1.9	0	
11/1/2022	6.72	8.64	1.92	0	
11/9/2022	6.80	8.80	2.00	0	
11/14/2022	6.45	6.92	0.47	0	
11/21/2022	6.15	7.41	1.26	0	
12/9/2022	4.85	5.12	0.27	0	
12/15/2022	5.40	5.41	0.01	0	
12/21/2022	4.60	4.62	0.02	0	
12/28/2022	4.42	4.44	0.02	0	

ATTACHMENT B

Analytical Laboratory Reports

Waste Disposal Manifest

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Report Date: 10/25/2022
Client Project ID: Harmon Misc Oil Recovery OU II
York Project (SDG) No.: 22J0821

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 10/25/2022
Client Project ID: Harmon Misc Oil Recovery OU II
York Project (SDG) No.: 22J0821

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 14, 2022 and listed below. The project was identified as your project: **Harmon Misc Oil Recovery OU II**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22J0821-01	Harmon OU II Misc Oil Recovery Drum A	Oil	10/06/2022	10/14/2022
22J0821-02	Harmon OU II Misc Oil Recovery Drum B	Oil	10/06/2022	10/14/2022
22J0821-03	Harmon OU II Misc Oil Recovery Drum C	Oil	10/06/2022	10/14/2022

General Notes for York Project (SDG) No.: 22J0821

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 10/25/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: Harmon OU II Misc Oil Recovery Drum A **York Sample ID:** 22J0821-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22J0821	Harmon Misc Oil Recovery OU II	Oil	October 6, 2022 7:30 am	10/14/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: HT-PCB

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:33	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.70	1	EPA 8082A Certifications:	10/25/2022 12:40	10/25/2022 15:33	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.5 %*	*30-150*

Sample Information

Client Sample ID: Harmon OU II Misc Oil Recovery Drum B **York Sample ID:** 22J0821-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22J0821	Harmon Misc Oil Recovery OU II	Oil	October 6, 2022 7:30 am	10/14/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: HT-PCB

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.67	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:47	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.67	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:47	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.67	1	EPA 8082A Certifications:	10/25/2022 12:40 CTDOH,NELAC-NY10854	10/25/2022 15:47	BJ

Sample Information

Client Sample ID: Harmon OU II Misc Oil Recovery Drum B **York Sample ID:** 22J0821-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22J0821	Harmon Misc Oil Recovery OU II	Oil	October 6, 2022 7:30 am	10/14/2022

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:** HT-PCB

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg	4.67	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 15:47	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.67	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 15:47	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.67	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 15:47	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.67	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 15:47	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.67	1	EPA 8082A Certifications:	10/25/2022 12:40	10/25/2022 15:47	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.0 %*	*30-150*

Sample Information

Client Sample ID: Harmon OU II Misc Oil Recovery Drum C **York Sample ID:** 22J0821-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22J0821	Harmon Misc Oil Recovery OU II	Oil	October 6, 2022 7:30 am	10/14/2022

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:** HT-PCB

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.56	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	10/25/2022 12:40	10/25/2022 16:01	BJ

Sample Information

Client Sample ID: **Harmon OU II Misc Oil Recovery Drum C** **York Sample ID:** **22J0821-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22J0821	Harmon Misc Oil Recovery OU II	Oil	October 6, 2022 7:30 am	10/14/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: **HT-PCB**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg	4.56	1	EPA 8082A Certifications:	10/25/2022 12:40	10/25/2022 16:01	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.5 %*	*30-150*

Sample and Data Qualifiers Relating to This Work Order

HT-PCB This sample was extracted outside of the CTDEP RCP or other State recommended holding time. The US EPA per SW-846 has issued a revision extending PCB hold time to 1 year or longer.

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22J0821

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675 | Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: MNR	Company: Tom Roszak	Company: MNR	Harmon misc oil Recovery OUT	RUSH - Next Day
Address:	Address: Kenny McKeel	Address:	YOUR Project Name	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Justin Jamison

Samples Collected by: (print AND sign your name)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced | (NYSDEC EQuIS)
NY ASP B Package | Deliverables | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Harmon OUT misc oil Recovery		10/6/22 7:30	PCB's 3	1 LTR Amber unpreserved
				Drum A
			label	Drum B
				Drum C

Comments: Email To: csmelt@Daymail Kmckeel@mnr.org

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
				[signature]	10/14/22 10:45
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Andrew S York	10/14/22 10:45	Andrew S York	10/14/22 520 pm	K Burkhardt	10/14/22 520 pm
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
K Burkhardt	10/14/22 1957				10/14/22 1957 2.1 Degrees C

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Report Date: 11/29/2022
Client Project ID: 11 2022 OU II Recovery Oil RW1 Well
York Project (SDG) No.: 22K0682

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/29/2022
Client Project ID: 11 2022 OU II Recovery Oil RW1 Well
York Project (SDG) No.: 22K0682

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 11, 2022 and listed below. The project was identified as your project: **11 2022 OU II Recovery Oil RW1 Well**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22K0682-01	Harmon Well RW1 A	Oil	11/07/2022	11/11/2022
22K0682-02	Harmon Well RW1 B	Oil	11/07/2022	11/11/2022
22K0682-03	Harmon Well RW1 C	Oil	11/07/2022	11/11/2022
22K0682-04	Harmon Well RW1 D	Oil	11/07/2022	11/11/2022

General Notes for York Project (SDG) No.: 22K0682

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 11/29/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **Harmon Well RW1 A** **York Sample ID:** **22K0682-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0682	11 2022 OU II Recovery Oil RW1 Well	Oil	November 7, 2022 11:00 am	11/11/2022

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:** **HT-01**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:12	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.86	1	EPA 8082A Certifications:	11/27/2022 13:39	11/28/2022 02:12	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.5 %*	*30-150*

Sample Information

Client Sample ID: **Harmon Well RW1 B** **York Sample ID:** **22K0682-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0682	11 2022 OU II Recovery Oil RW1 Well	Oil	November 7, 2022 11:05 am	11/11/2022

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:** **HT-01**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:26	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:26	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:26	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:26	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39 CTDOH-PH-0723,NELAC-NY10854	11/28/2022 02:26	BJ

Sample Information

Client Sample ID: Harmon Well RW1 B **York Sample ID:** 22K0682-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0682	11 2022 OU II Recovery Oil RW1 Well	Oil	November 7, 2022 11:05 am	11/11/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: HT-01

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg	4.59	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:26	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.59	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:26	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.59	1	EPA 8082A Certifications:	11/27/2022 13:39	11/28/2022 02:26	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.5 %*	*30-150*

Sample Information

Client Sample ID: Harmon Well RW1 C **York Sample ID:** 22K0682-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0682	11 2022 OU II Recovery Oil RW1 Well	Oil	November 7, 2022 11:10 am	11/11/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: HT-01

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.96	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:40	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.96	1	EPA 8082A Certifications:	11/27/2022 13:39	11/28/2022 02:40	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.5 %*	*30-150*

Sample Information

Client Sample ID: **Harmon Well RW1 D** **York Sample ID:** **22K0682-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0682	11 2022 OU II Recovery Oil RW1 Well	Oil	November 7, 2022 11:15 am	11/11/2022

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: **HT-01**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.91	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/27/2022 13:39	11/28/2022 02:54	BJ
1336-36-3	* Total PCBs	ND		mg/kg	4.91	1	EPA 8082A Certifications:	11/27/2022 13:39	11/28/2022 02:54	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.0 %*	*30-150*

Analytical Batch Summary

Batch ID: BK21615 **Preparation Method:** Oil Preparation for GC **Prepared By:** BCJ

YORK Sample ID	Client Sample ID	Preparation Date
22K0682-01	Harmon Well RW1 A	11/27/22
22K0682-02	Harmon Well RW1 B	11/27/22
22K0682-03	Harmon Well RW1 C	11/27/22
22K0682-04	Harmon Well RW1 D	11/27/22
BK21615-BLK1	Blank	11/27/22
BK21615-DUP1	Duplicate	11/27/22
BK21615-SRM1	Reference	11/27/22

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK21615 - Oil Preparation for GC											
Blank (BK21615-BLK1)								Prepared & Analyzed: 11/27/2022			
Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
Surrogate: Tetrachloro-m-xylene	*18.5*		*"*	*20.0*		*92.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*13.6*		*"*	*20.0*		*68.0*	*30-150*				
Duplicate (BK21615-DUP1)	*Source sample: 22K1026-01 (Duplicate)							Prepared: 11/27/2022 Analyzed: 11/28/2022			
Aroclor 1260	ND	4.73	mg/kg		ND					200	
Total PCBs	ND	4.73	"		ND					200	
Surrogate: Tetrachloro-m-xylene	*17.4*		*"*	*18.9*		*92.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*13.1*		*"*	*18.9*		*69.0*	*30-150*				
Reference (BK21615-SRM1)								Prepared & Analyzed: 11/27/2022			
Aroclor 1260	77.6	5.00	mg/kg	100		77.6	19.06-140.6				
Surrogate: Tetrachloro-m-xylene	*16.3*		*"*	*20.0*		*81.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*13.3*		*"*	*20.0*		*66.5*	*30-150*				
Batch S2K2860 - BK21149											
Aroclor Reference (S2K2860-ARC1)								Prepared & Analyzed: 11/27/2022			
Surrogate: Tetrachloro-m-xylene	*0.225*		*ug/mL*	*0.200*		*112*					
Surrogate: Decachlorobiphenyl	*0.182*		*"*	*0.200*		*91.0*					

Sample and Data Qualifiers Relating to This Work Order

HT-01 This result was reported from an analysis conducted outside of the EPA recommended holding time.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 22K0682

YOUR Information

Company: MNR
Address:
Phone No.
Contact Person:
E-Mail Address:

Report To:

Company: Tom Nosczak
Address: Kenny Mekeel
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: MNR
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

OUII Recovery oil RW1 well

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report ____
- Summary w/ QA Summary ____
- CT RCP Package ____
- CTRCP DQA/DUE Pkg ____
- NY ASP A Package ____
- NY ASP B Package ____
- NJDEP Red. Deliv. ____

Electronic Data Deliverables (EDD)

- Simple Excel ____
- NYSDEC EQuIS ✓
- EQuIS (std) ____
- EZ-EDD (EQuIS) ____
- NJDEP SRP HazSite EDD ____
- GIS/KEY (std) ____
- Other ____
- **York Regulatory Comparison Excel Spreadsheet** ____

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Justin Jamison
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Harmon Well RW1 A	11:00	11/7/22	PCBs	1 1LTR Amber unpreserved
Harmon Well RW1 B	11:05	11/7/22	PCBs	1 1LTR Amber unpreserved
Harmon Well RW1 C	11:10	11/7/22	PCBs	1 1LTR Amber unpreserved
Harmon Well RW1 D	11:15	11/7/22	PCBs	1 1LTR Amber unpreserved

Comments Email To: ksmeh@Daymail
kmekeel@mnr.org

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 11/11/22 10:15
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time: 11/11/22 1020
Samples Received in LAB by — Date/Time: 11/11/22 1939

Temperature on Receipt 1.1 °C

ENVIRONMENTAL

DID: 97453

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD084006477
2. Page 1 of: 1
3. Emergency Response Phone: CHIEF DISPATCHER 212-340-2050
4. Waste Tracking Number: 96932 L

5. Generator's Name and Mailing Address
METRO NORTH RAILROAD
C/O ENVIRONMENTAL DEPT
525 NORTH BROADWAY
WHITE PLAINS, NY 10603
Generator's Phone: 914-461-0560 ATTN:KAREN MIELE

Generator's Site Address (if different than mailing address)
METRO NORTH RAILROAD-HARMON YD
100 CROTON HARMON YARDS
CROTON ON HUDSON, NY 10520

6. Transporter 1 Company Name: FREEHOLD CARTAGE, INC.
U.S. EPA ID Number: NJD054126164

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EQ DETROIT, INC.
1923 FREDERICK ST.
DETROIT, MI 48211
Facility's Phone: 313-347-1300
U.S. EPA ID Number: MID980991566

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	NON-REGULATED MATERIAL (OIL/WATER)	3	DM	1200 EST	P	021L
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1.) ITEM 17 - WASTE OIL/WATER (KF051050) (55 G) OV-II Drums
US ECOLOGY CONFIRMATION # 1137728, WTS ORDER # 96932

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Karen Miele On behalf of Metro North Railroad
Signature: Karen Miele
Month: 10 Day: 18 Year: 22

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jason Briney
Signature:
Month: 10 Day: 18 Year: 22
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

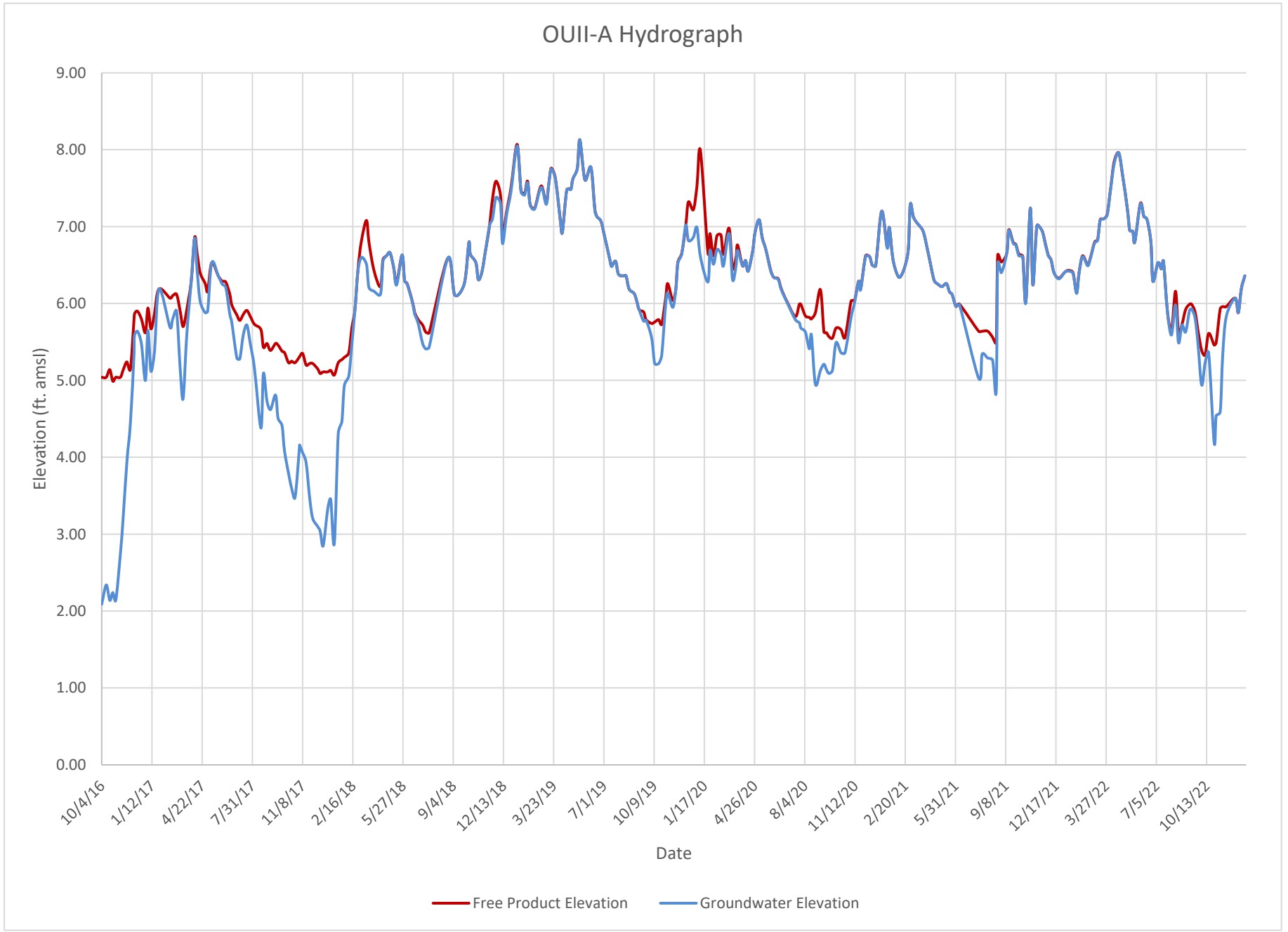
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Joan Smith
Signature: Joan Smith
Month: 10 Day: 20 Year: 22

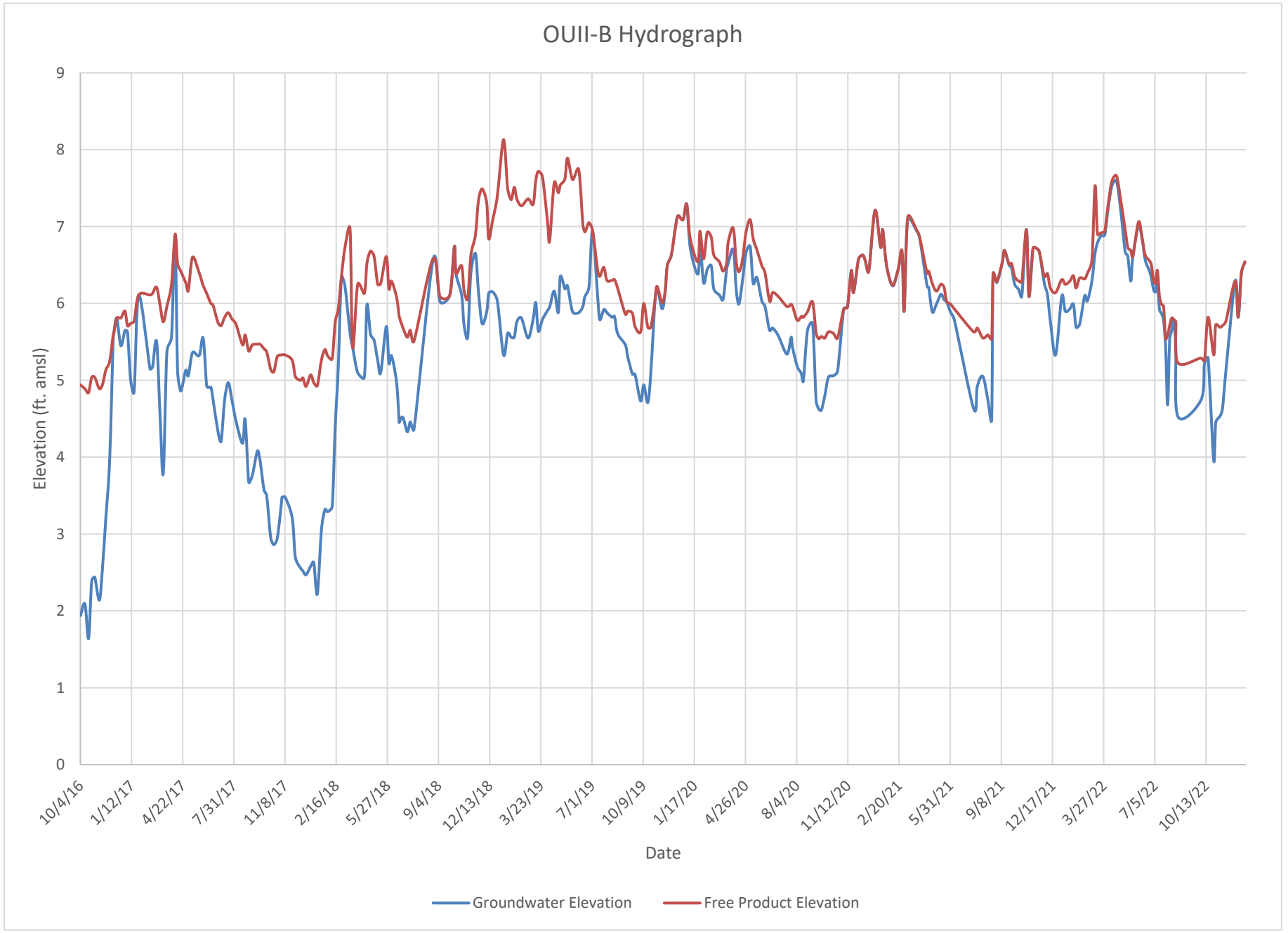
169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

ATTACHMENT C

Off-Site Monitoring Well Hydrographs


OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
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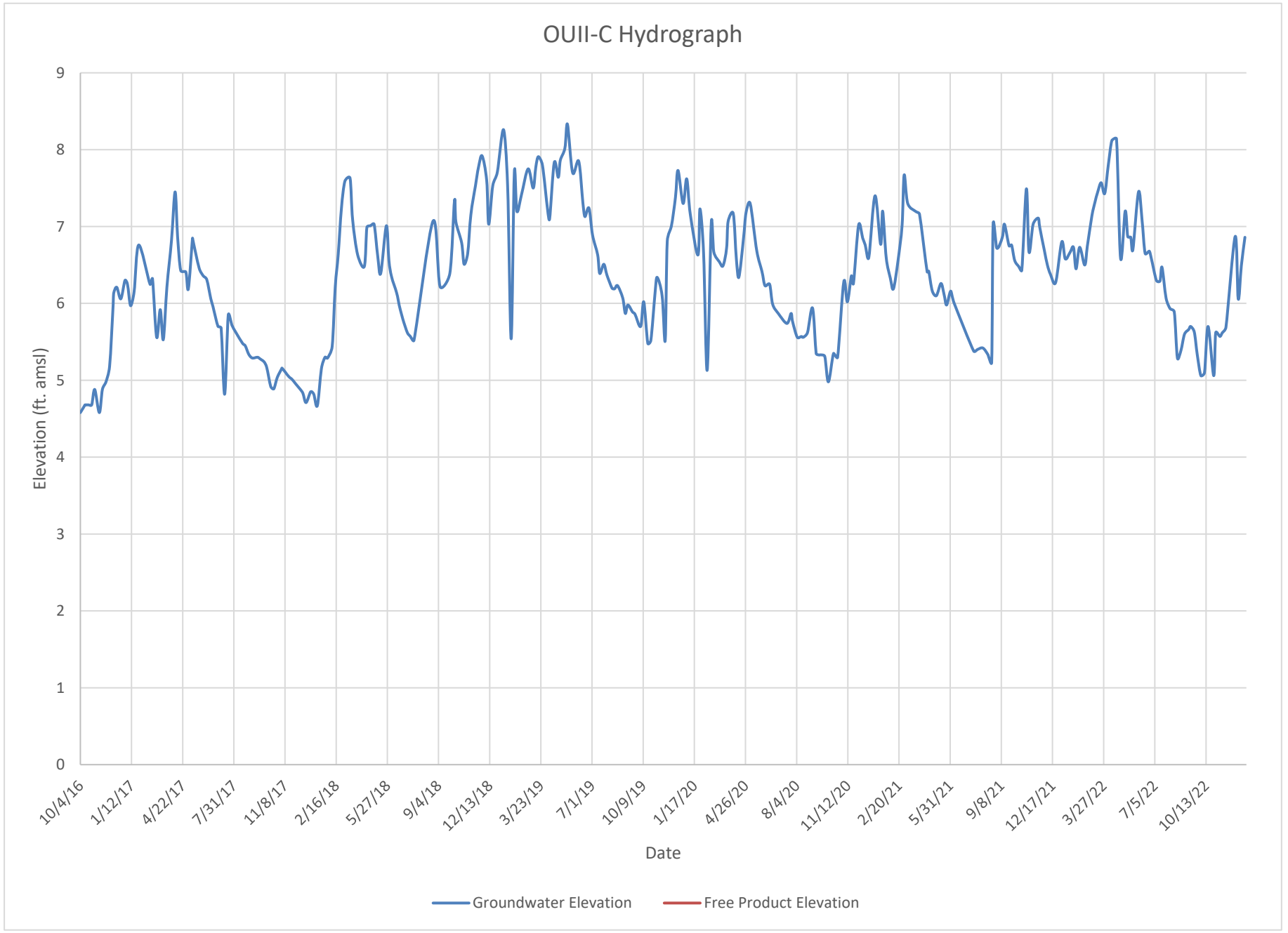
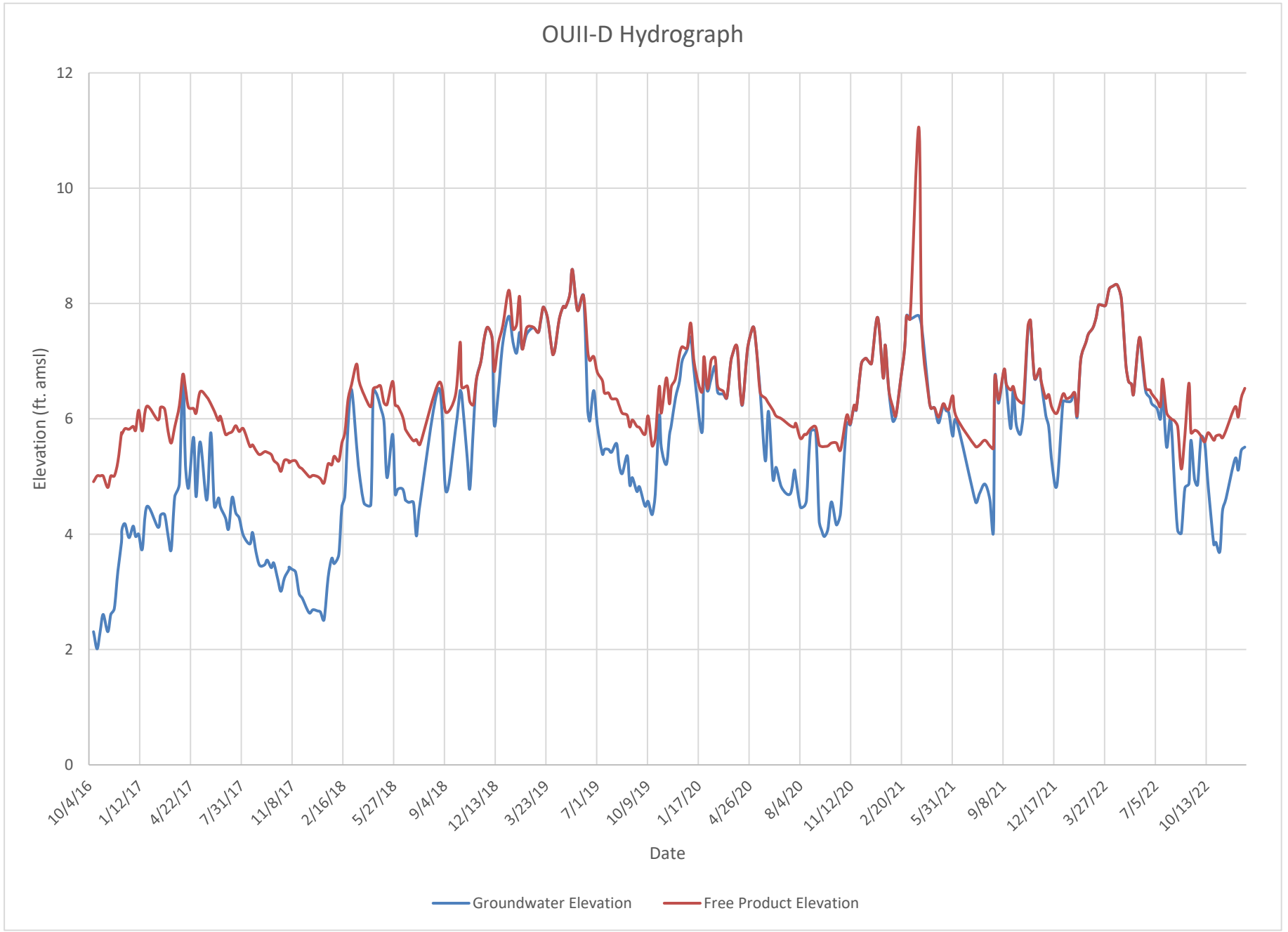
10/13/22
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
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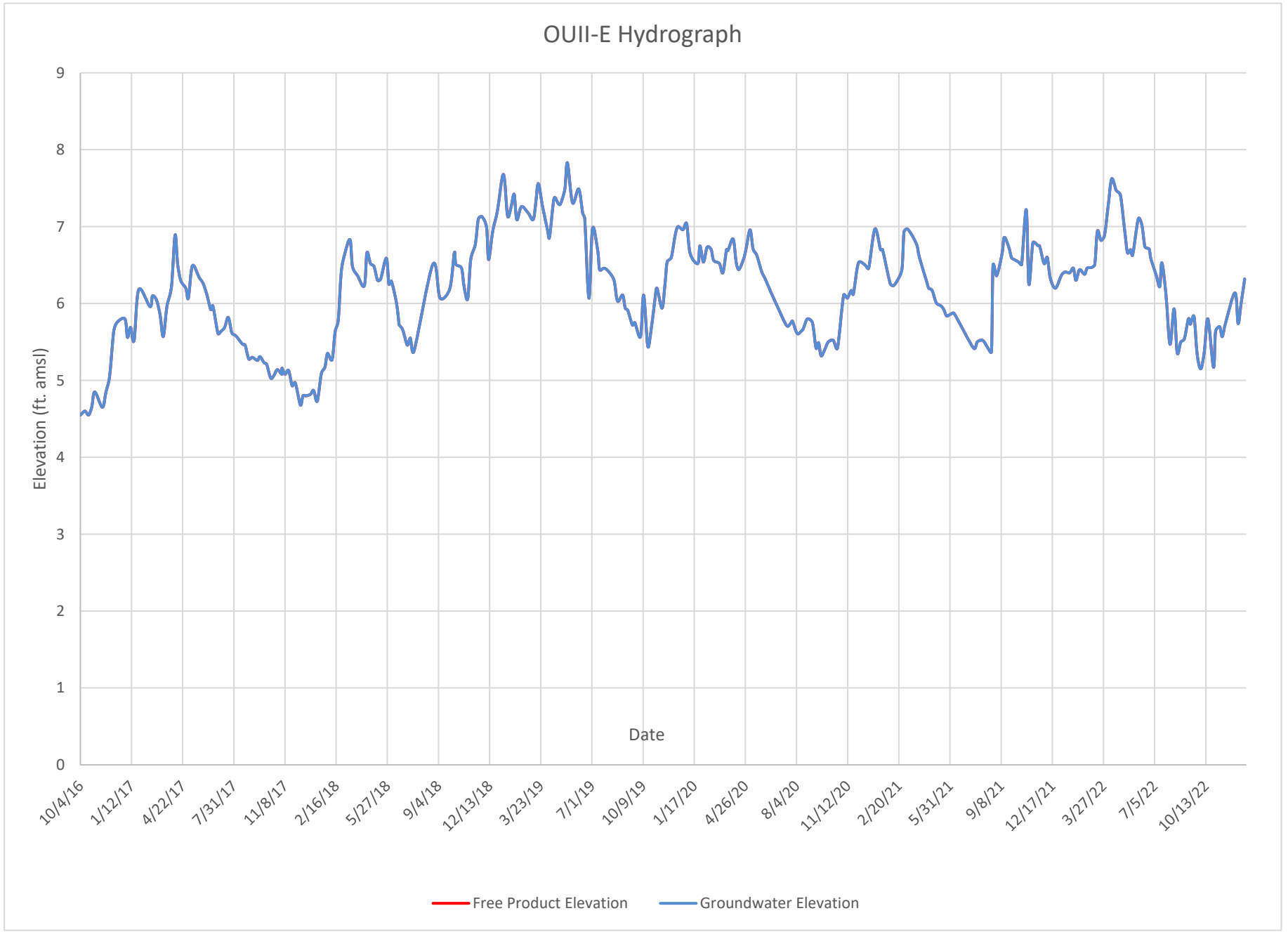
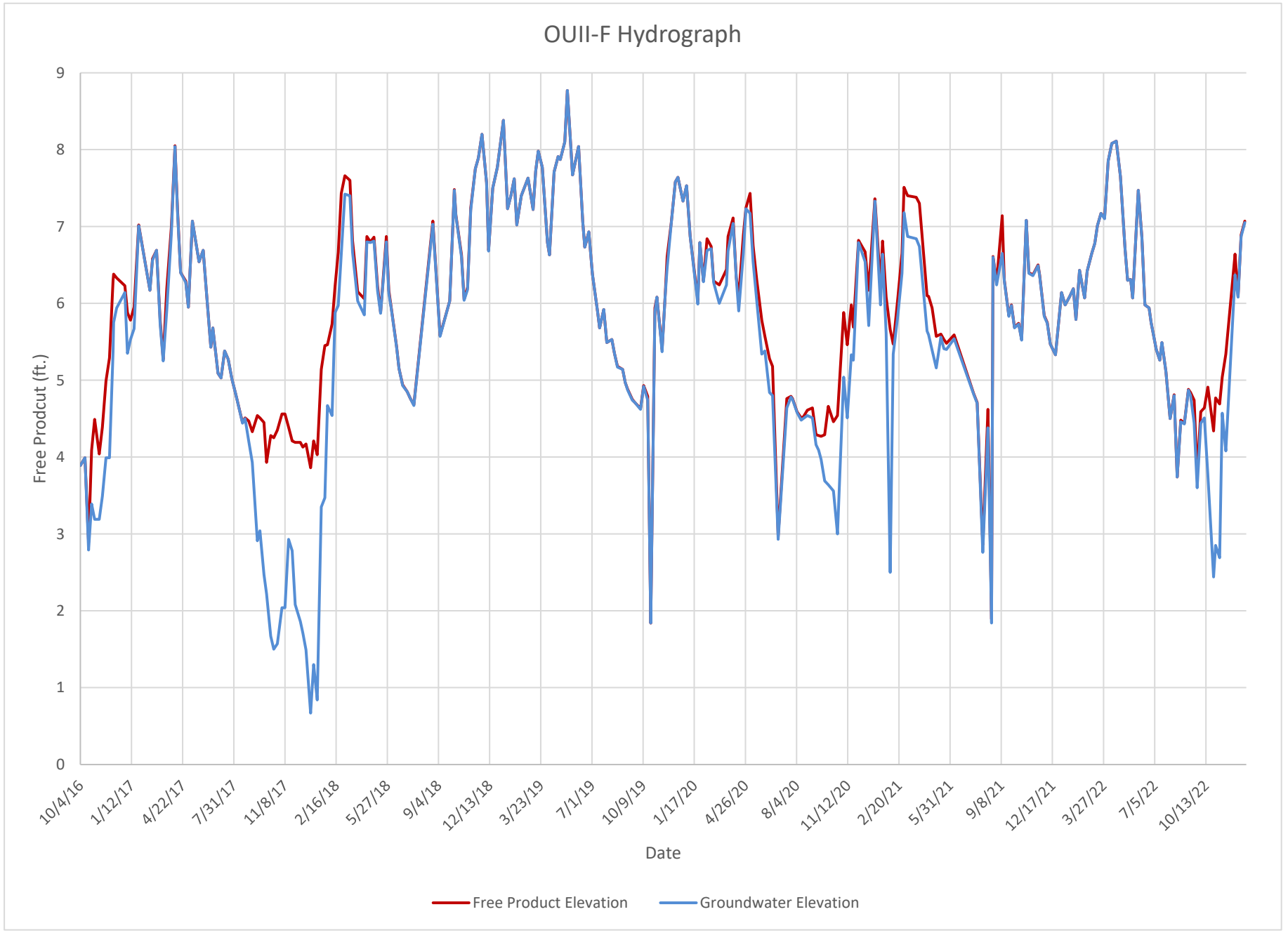
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Inspection Report
and
Photographs of Select Monitoring Wells

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		X	
Is there any evidence of settlement?		X	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

Good condition

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?		X	
Is there debris or other material on the slopes?		X	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

Dumpster on site to continue removal of scrap metal.

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Monitoring wells and protective casings in good condition.

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full?		x	
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

3 Drums sampled 9/13/22 and disposed of 10/18/22. See attached sample results and manifest.

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	X		

Specify Correction Actions Needed:

N/A

Date of Inspection: 10/27/22 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

Monitoring well DAY-1

Monitoring well PGW-2

Monitoring well VE 4-9

Monitoring well VE 4-7

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JANUARY 1, 2023 THROUGH MARCH 31, 2023

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between January 1, 2023 and March 31, 2023 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Note: Metro-North Railroad (MNR) received a letter from the New York State Department of Environmental Conservation (NYSDEC), titled "2020 Site Management Plan Status Reports" dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021. The August 2021 document presents actions proposed to address comments/requests presented in the May 7, 2021 letter including evaluation of the extent of free product and development of options to limit off-site free product migration. Comments to the August 2021 submittal were received from the NYSDEC on March 8, 2022, and a subsequent response was provided to the NYSDEC on April 19, 2022. The NYSDEC responded to the April 19, 2022 submittal via an email dated July 29, 2022. Following discussions between MNR, NYSDEC, and DAY representatives, a document describing an alternative approach to assess the free product impact in the OUII area was submitted to the NYSDEC on August 31, 2022. To date, the NYSDEC has not responded to the August 31, 2022 submittal. However, NYSDEC representatives visited the Site on September 1, 2022, and in an email dated October 6, 2022, the NYSDEC stated: "…*that there potentially exists additional information regarding potential off-site migration of contamination. Previously, the Department was seeking that MNRR pursue additional measures to address this potential migration however based upon the site visit if you obtain the groundwater sampling data from the Former Croton Sanitary Landfill (FDCPSL) and provide it to the department, this may adequately address our previous concerns."* MNR received information from Westchester County on January 5, 2023 regarding groundwater conditions at the Former Croton Sanitary Landfill. The information provided in this response is summarized in the following section of this submittal.

INFORMATION PROVIDED BY FORMER CROTON SANITARY LANDFILL: Westchester County provided various documents regarding the Former Croton Sanitary Landfill as an attachment to an email dated January 5, 2023 (a copy of these documents is included in Attachment A). The documents provided

included a figure titled "Environmental Sampling and Locations Map for Croton & Railroad Sanitary Landfills." Based on a review of this figure the landfill monitoring wells located in proximity of OU-I/OU-II NAPL area L1 include monitoring wells designated MWRR-2S and MWRR-2D, which are located approximately 200 feet north-northwest of off-site well OU-II F; monitoring well MWRR-3, which is located approximately 50 feet south of the fueling station located at Harmon Yard; MWRR-4, which is located approximately 160 feet southeast of MNR off-site monitoring well OUII-F; and, MWRR-5, which is located about 800 feet southeast of monitoring well VE4-11 in the Harmon OU-I/OU-II area. [Note: Monitoring well MWRR-4 is located approximately 40 feet south of the central portion of NAPL area L4.] The landfill "Pumping Station No. 2" (i.e., identified as the leachate sampling location in the figure legend) is located about 150 feet south of MWRR-5.

The documents provided by Westchester County included analytical laboratory test results for groundwater samples collected in 2018, 2020, 2021, and 2022; and the sampling logs for groundwater samples collected in 2022. [Note: The sampling logs did not indicate the presence of NAPL or the indication of unusual odors in any of the sampled wells.]

Surface water sampling logs were also provided for locations identified as Surface Water Sampling Location, which is approximately 250 feet west of Harmon NAPL area L4; Public Beach, located approximately 0.5 mile southwest of Harmon NAPL area L4; Tellers Point, located approximately 1.1 mile south of south of Harmon NAPL area L4; and, Easter Drainage Channel, located approximately 0.4 mile southeast of Harmon NAPL area L4. The surface water samples collected from the Public Beach location were reported as "No odor, clearish". The surface water samples collected from the remaining three locations were reported as "Yellow, no odor". Petroleum impacts (e.g., the presence of free product, petroleum odors, etc.) were not identified for any of the surface water samples.

The groundwater testing program included Target Analyte List (TAL)-23 metals and Target Compound List (TCL) Volatile Organic Compounds (VOCs). The laboratory testing completed on leachate samples collected from a RR sump (assumed to be Pumping Station No. 2) in 2018, 2020, 2021, and 2022 included metals, Total Petroleum Hydrocarbons (TPH), polychlorinated biphenyls (PCBs), and VOCs.

Table A, which is included in the documents provided by Westchester County (refer to Attachment A), provides a summary of detected VOCs in the groundwater samples collected from monitoring wells MWRR-2S, MWRR-2D, MWRR-3, MWRR-4, and MWRR-5 between 2018 and 2022. This table also includes a comparison to groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums (TOGS 1.1.1). As shown in Table A, various VOCs were detected in the groundwater samples collected from monitoring wells MWRR-2S and MWRR-2D (i.e., 1,2-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethane, isopropylbenzene, methyl tert butyl ether, naphthalene, and sec-butylbenzene). The concentrations of 1,2-dichlorobenzene, benzene, and chlorobenzene were detected at concentrations greater than the TOGS 1.1.1 groundwater standard or guidance value during one or more monitoring event in samples collected from monitoring wells MWRR-2S and MWRR-2D. VOCs were not detected in the samples collected from wells MWRR-3, MWRR-4, and MWRR-5 (i.e., except for one detection of MTBE in a sample collected from MWRR-3).

PCBs were not detected in the sample collected from the RR sump (assumed to be Pumping Station No. 2). Non-polar extractable material (TPH) was detected in the RR sump samples collected in 2021 and 2022 at concentrations of 6.82 milligrams per liter (mg/L) or parts per million (ppm) and 2.57 ppm, respectively.

Evidence of Non-Aqueous Phase Liquid (NAPL) identified in the MNR off-site monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F was not identified in the surface water, landfill monitoring wells and the leachate collection location at the Former Croton Sanitary Landfill that are positioned nearest to these monitoring wells. While some petroleum-related VOCs were detected in samples collected from monitoring wells MWRR-2S and MWRR-2D and detectable concentrations of TPH were measured in leachate samples, the source of this impact is unknown. Based on the available data it is not anticipated that these impacts are attributable to the Harmon Yard OUI/OUII area.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment B. A groundwater contour map developed using static water levels measured on March 8 and March 9, 2023 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment B document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and December 31, 2022) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between January 1, 2023 and March 31, 2023) and the preceding report period (i.e., between October 1, 2022 and December 31, 2022 is included as Figure 2.

During the report period, wells RW-1, FA4-8, and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product.

Approximately 3.0 gallons of free product removed from well AI2-3, but free product was not removed from wells RW-1 or FA4-8 during the current report period. MNR personnel reported that the Spill Buster™ systems in these wells were active during the current report period; however, there may have been insufficient amount of product present in these wells for removal.

A total of approximately 16.41 gallons of free product was removed from wells at the Site during the current report period. The majority of the free product was removed from NAPL Area L4 (i.e., approximately 11.41 gallons). The total amount of free product removed in the previous reporting period (i.e., between October 1, 2022 and December 30, 2022) was approximately 174 gallons. The total amount of free product removed in a similar calendar period (i.e., between January 1, 2022 and March 31, 2022) was 126.05 gallons. Since January 1, 2013, approximately 4,987 gallons of free product or approximately 111 gallons per reporting period (i.e., every three months) has been removed from the Site. The majority of the decrease appears to be attributable to the reduced amount removed from wells AI2-3, FA4-8, and RW-1.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected from full 55-gallon drums for laboratory testing during the current report period. Seven drums that were previously sampled/tested were removed from the Site for disposal at Cycle Chem, Inc. in Elizabeth, New Jersey on January 17, 2023. A copy of the waste disposal manifest is provided in Attachment C.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: On March 8 and March 9, 2023, groundwater samples were collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 4-11, and DAY-1 (i.e., as required by the long-term monitoring plan identified in the SMP, and a subsequent request of the NYSDEC to test for emerging contaminants in the groundwater samples collected from select wells). These samples were collected via low-flow sampling procedures. The groundwater samples were submitted to Hampton-Clarke Inc. (Hampton-Clarke) for testing of the following parameters:

- CP-51 Volatile Organic Compounds (VOCs) and chlorobenzene via United States Environmental Protection Agency (USEPA) method 8260
- Semi-Volatile Organic Compounds (SVOCs) and 2-methylnaphthalene via USEPA method 8270
- Polychlorinated Biphenyls (PCBs) via USEPA method 8082A
- Arsenic, chromium, copper, and lead via USEPA method 6020
- 1,4-Dioxane (monitoring wells VE1-4, VE2-1, and VE4-11) via USEPA method 8270 SIMs

York Analytical Laboratories, Inc. (York) tested samples from monitoring wells VE1-4, VE2-1, and VE4-11 for Per- & Polyfluorinated Alkyl Substances (PFAS) via USEPA draft method 1633.

A duplicate sample, MS/MSD, equipment blank, and trip blank (VOCs and PFAS only) were collected on March 9, 2023. The lab packages for both the 2023 groundwater sampling, as well as the lab packages from 2019 through 2022, have been submitted for data validation. The results of this data validation will be submitted in the next status report.

During the March 8, 2023 sample event, free product/groundwater samples were also collected from six off-site monitoring wells (i.e., OUII-A through OUII-F) and five on-site monitoring wells (i.e., FA 4-9, FA4-16, PGW-2, VE 4-7, and VE 4-9). These samples were submitted under chain-of-custody control to Hampton-Clarke for testing of PCBs via USEPA method 8082A. These samples were collected using bailers from the upper portion of the water table without purging and analysis of free product was requested (i.e., if sufficient free product was present). [Note: Free product samples collected from wells monitoring wells OUII-D, FA4-9, FA4-16, and VE4-9 were tested for PCBs. Water samples from the remainder of these monitoring wells were tested for PCBs.]

Test results for the groundwater and free product samples collected in March 2023 as well as those collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2022 per the requirements of the long-term monitoring plan, are summarized on Table 3 (volatile organic compounds), Table 4 (semi-volatile organic compounds), Table 5 (polychlorinated biphenyls), and Table 6 (metals). The applicable groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004 (TOGS 1.1.1) are also included on Table 3 through Table 6. The test results are discussed below.

- As shown on Table 3, VOCs were not detected in the groundwater samples collected in March 2023 from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 4-11, and DAY-1. The sample collected from monitoring well VE 3-1 in March 2023 contained concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, chlorobenzene, and naphthalene that were below the TOGS 1.1.1 groundwater standards. The VOC concentrations detected are consistent with those measured during previous sampling events.

- As shown on Table 4, SVOCs were not detected in the groundwater samples collected in March 2023 from monitoring wells VE 1-2, VE 1-4, VE 2-1 and VE 4-11. [Note: the reporting limit for several SVOCs (i.e., benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene) exceeded the TOGS 1.1.1 groundwater standard or guidance values.] The samples collected from monitoring wells VE 1-2, VE 3-1 and DAY-1 in March 2023 contained detectable concentrations of one or more SVOCs (e.g., 2-methylnaphthalene, acenaphthene, fluoranthene, fluorene, phenanthrene, and pyrene) at concentrations below the TOGS 1.1.1 groundwater standards or guidance values. The SVOC concentrations detected in the samples collected in March 2023 are comparable to those measured during previous sampling events.

- As shown on Table 5, PCBs were not detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, DAY-1, OUII-C and OUII-E in March 2023. PCBs were detected in the groundwater/free product samples collected from monitoring wells FA4-9, FA4-16, PGW-2, VE4-7, VE4-9, OUII-A, OUII-B, OUII-D, and OUII-F at concentrations that exceeded the TOGS 1.1.1 groundwater standard of 0.09 µg/L. Specifically, the concentrations of PCBs detected ranged from 2.3 µg/L detected in the sample collected from well OUII-D to 52 µg/L detected in the sample collected from well VE 4-9. The concentrations of PCBs detected in the wells sampled in March 2022 are consistent with those measured during previous sampling events.

- As shown on Table 6, arsenic and chromium were detected in the groundwater samples collected from monitoring wells VE 3-1 and DAY-1 in March 2023. Copper was detected in the groundwater samples collected from monitoring wells VE 1-4 in March 2023. Lead was detected from monitoring wells VE 1-4 and VE 3-1 in the groundwater samples collected in March 2023. The concentrations of arsenic, chromium, copper, and lead detected are below the TOGS 1.1.1 groundwater standards or guidance values. The concentrations of arsenic copper, lead, and chromium detected in the sample collected in March 2023 are consistent with those measured in samples collected/tested during previous sampling events.

The test results for the groundwater samples collected for emerging contaminant testing (i.e., PFAS and 1,4-Dioxane) are included in Table 7. The NYSDEC published a 2023 Addendum to TOGS 1.1.1 with guidance values for perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and 1,4-dioxane. These guidance values are included in Table 7. In addition, the NYSDEC document titled *Guidelines for Sampling and Analysis of PFAS* dated January 2020 states the following:

> *"PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt). In addition, further assessment of water may be warranted if either of the following screening levels are met:*

a. *any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or*
b. *total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L."*

As shown on Table 7, the sample collected in March 2023 from well VE 1-4 had concentrations of PFOA and PFOS that exceeded 6.7 nanograms per liter (ng/L) or parts per trillion (ppt) and 2.7 ppt, respectively. The sample collected in March 2023 from well VE 2-1 had a concentration of PFOS that exceeded 2.7 ppt. The concentration of PFOA in the samples collected from well VE 2-1 and well VE 4-11 were below 6.7 ng/L and the concentrations of PFOS in the sample collected from well VE 4-11 in March 2023 was below 2.7 ng/L. No individual PFAS was detected at or above 100 ng/L and the total concentration of PFAS was less than 500 ng/L in the samples collected in March 2023. 1,4-Dioxane was not detected at concentrations greater than the laboratory method detection limit. [Note: Drinking water wells are not located in proximity to the Site.]

Copies of the analytical laboratory reports submitted by Hampton-Clarke and York for the samples collected in March 2023 are available upon request.

The next groundwater sampling event is currently scheduled to be completed in August 2024. During this event, samples are scheduled to be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples are also scheduled to be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the upcoming sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation. If Data Usability Summary Reports (DUSRs) are received for laboratory data packages submitted for data validation (i.e., the laboratory data packages from 2019 through 2023) the DUSRs will be included in the subsequent status report. In addition, analytical results will be submitted to EqUIS following receipt of the applicable DUSR.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment B. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-C, OUII-D, and OUII-F, ranging in thickness between 0.1 ft. and 2.02 ft. Free product was not detected in well OUII-E. Free product was not recovered from the off-site monitoring wells.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the

amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment D. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected typically decreases when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on October 27, 2022 by MNR.

During the October 27, 2022 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. The next inspection is scheduled for April 2023.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between April 1, 2023 and June 30, 2023), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a Spill Buster™ in one of these wells is functional, but that limited free product remains in that location (i.e., if minimal free product removal continues in wells RW-1, AI2-3, and FA4-8), the Spill Buster(s)™ may be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5) and/or the function of the Spill Buster™ should be confirmed. Free product detected in wells not containing a Spill Buster™ system should be removed using a bailer or portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any

off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022 and March 2023. If the apparent blockage observed during the August 2022 and March 2023 groundwater sampling event in monitoring well VE 3-1 cannot be removed, a replacement well will be required.

The next OU-I/OU-II inspection is due on or about April 30, 2023. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., April 1, 2023 through June 30, 2023) will be submitted in July 2023.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: January 1, 2023 through March 31, 2023
Table 2: Historic Free Product Removal Totals: December 1, 2012 through December 31, 2022
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: March 2023
Figure 2: Summary of Free Product Removal for the Report Periods January 1, 2023 – March 31, 2023 and October 1, 2022 – December 31, 2022
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Information Provided by Former Croton Sanitary Landfill
Table A: Summary of Detected VOC Results in µg/L or ppb
Attachment B: Well Monitoring Logs and Free Product Removal Records: January 1, 2023 – March 31, 2023
Attachment C: Waste Disposal Manifest
Attachment D: Off-Site Monitoring Well Hydrographs

\\192.168.0.2\Files\Clients - Major\MNR\Harmon Yard\Remediation Reports\OU I & OU II\OUI-OUII Status Reports\2023-04 Q1 2023 Status Report\Site ID 360010 OUI OUII Status Report Jan-Mar 2023.docx

TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: January 1, 2023 through March 31, 2023

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	2
Total	**2**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	3.0
VE2-1	0
Total	**3**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	4.89
FA4-15	0.5
FA4-16	0.88
FA4-17	0.00
FA4-18	2.26
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	0
VE4-1	0
VE4-5	2.88
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**11.41**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - December 31, 2022

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	165.31
Total	**194.805**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	22.89
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**32.882**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1053.03
VE2-1	0
Total	**1054.66**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	12.67
FA4-13	101.8
FA4-14	304.65
FA4-15	86.54
FA4-16	75.68
FA4-17	85.97
FA4-18	117.08
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1825.4
VE4-1	0
VE4-5	233.4
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3671.30**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 D	66	33	28	7	ND [0.12]	ND [0.26]	ND [0.25]	8.30 P	0.61	2.3	ND [0.12]	0.36	ND [0.25]	2.00 P	4.8	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12]	140	30	0.89 P	10	67	34E	2.1	4.2	4.7	0.35 JP	3.7	47	ND [0.12]	17	52
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																												
		VE 1-2															VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	29	160	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33	3.9

Compound	Groundwater Standard or Guidance Value[(1)]	Test Locatio																										
		VE 4-11															DAY 1											
		3/27/12	9/11/12	9/11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]	ND [3.0]	ND [3.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

| Compound | Groundwater Standard or Guidance Value [1] | Test Location and Sample Date | | |

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																			
		VE 1-2	VE 1-4									VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	**29**	**50**	**51.3**	**15**	**44**	**43**	**12.3**	**7.01**	**6.16**	**7.7**	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	**6.9**	**23**	**7.3**	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55.5**	**24.1**	**22.7**	**55**	**16**	**21**	**42.9**	**38.2**	**56**	**60**	**81**	**60.5**	**33.5**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8]	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18]	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank			
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	ND [1.8]	ND [0.758]	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	**14**	**7.2**	**4.2**	ND [10]	**5.2**	**6.1 I**	**6.6**	ND [1.48]	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18]	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

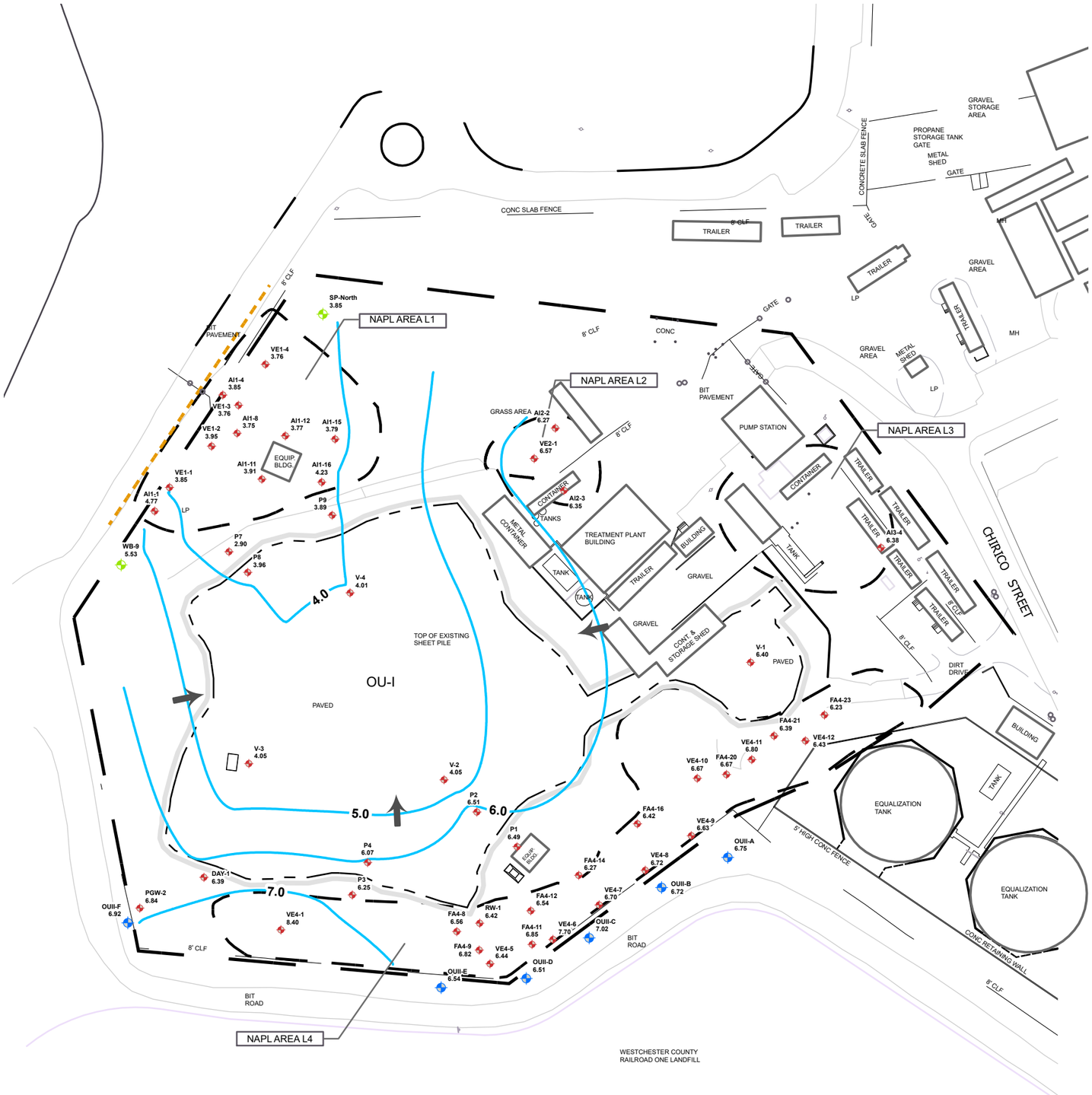
Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.

2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

N

LEGEND:

- VE 4-6 (7.70 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation; Groundwater elevation for water level measurement made March 2023
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	04-2023
DRAWN BY	CPS
DATE DRAWN	04-2023
SCALE	As Noted
DATE ISSUED	04-11-2023

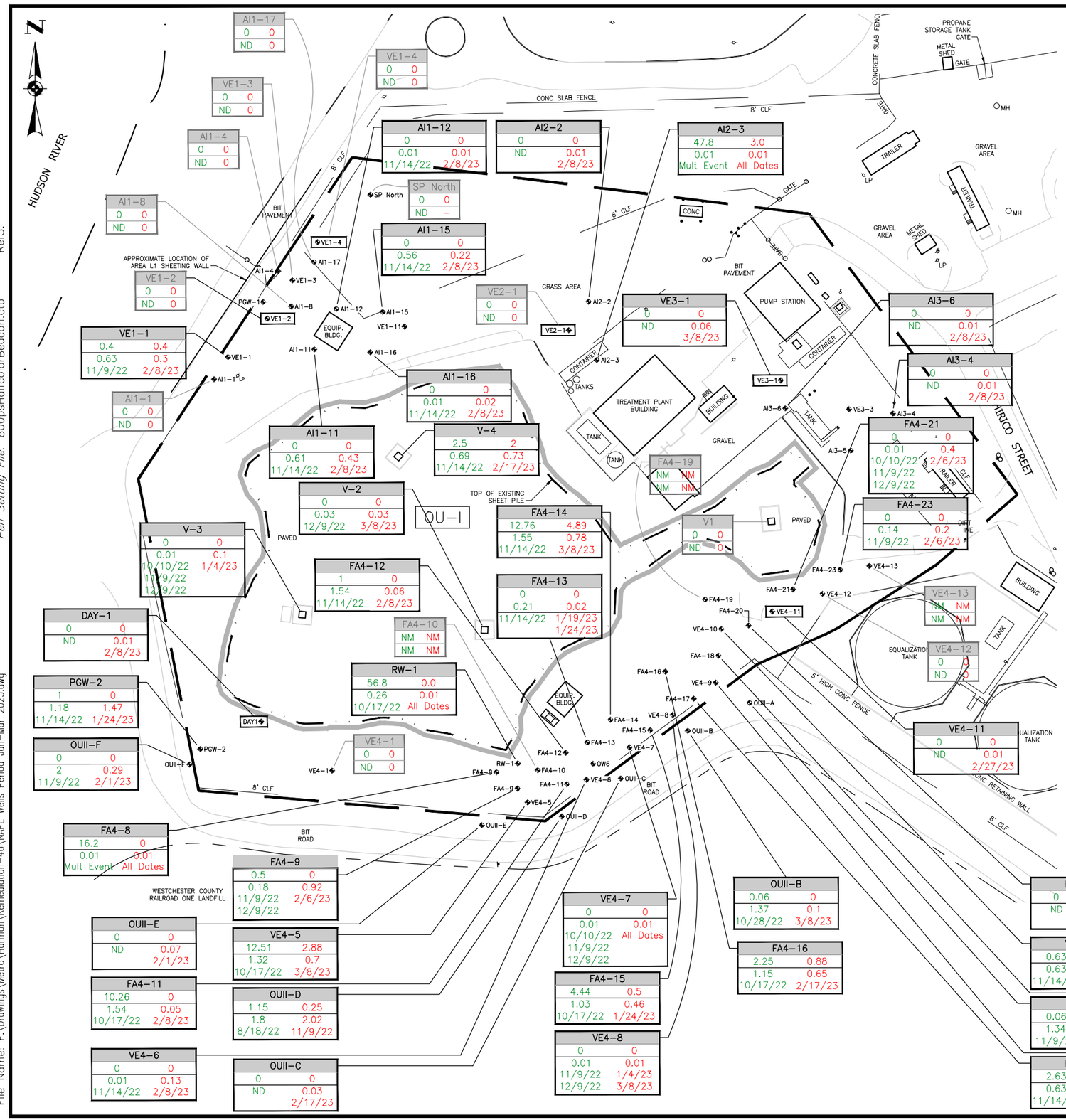
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: March 2023

Project No.
23-3690M

FIGURE 1



SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells
- FA4–14 / 12.76 4.89 / 1.55 0.78 / 11/14/22 3/8/23 — Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period October 1, 2022 Through December 31, 2022 Shown In Green (Left)

Measurements Made During The Report Period January 1, 2023 Through March 31, 2023 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

PROJECT MANAGER	HMM
DATE	4/2023
DRAWN BY	RJM/CPS/TW
DATE DRAWN	4/25/2023
SCALE	As Noted
DATE ISSUED	4/25/2023

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO–NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU–I AND OU–II
CROTON–ON–HUDSON, NEW YORK
NYSDEC SITE #360010

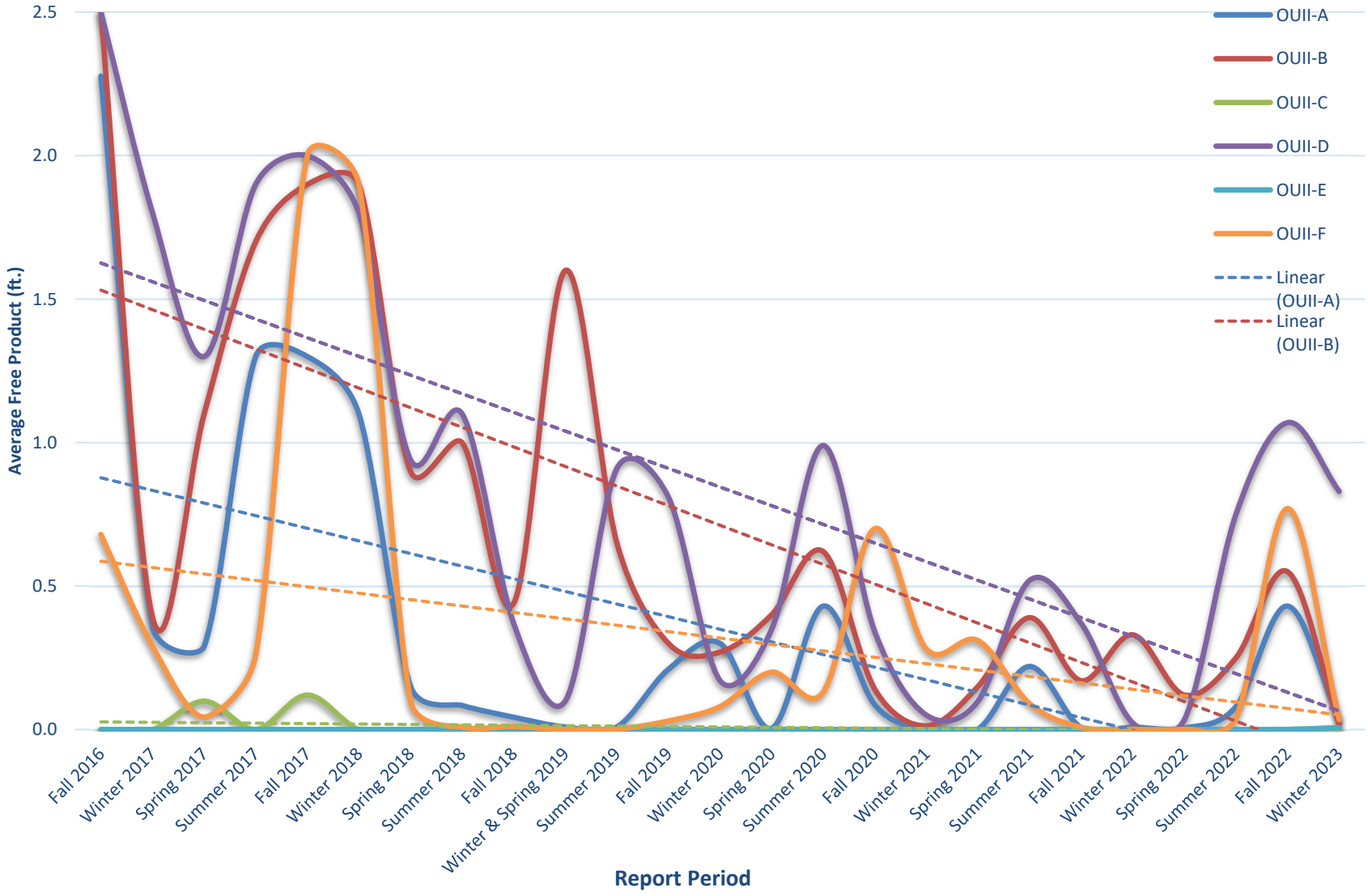
DRAWING TITLE
Summary Of Free Product Removal For The Report Periods October - December 2022 and January - March 2023

PROJECT NO.
23–3690M

FIGURE 2

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb
Ref1:
Ref2:
Ref3:
Time Plotted: Tuesday, April 25, 2023 10:00:04 AM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Jan–Mar 2023.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Information Provided by Former Croton Sanitary Landfill

George Latimer
County Executive

Department of Environemtnal Facilities

Vincent Kopicki, P.E.
Commissioner

January 5, 2023

Via Electronic Mail Only
Gianazza@mnr.org

Sara M. Gianazza, Esq.
Senior Manager
Environmental Compliance and Services
Metro-North Railroad
525 North Broadway, 2nd Fl.
White Plains, NY 10603

Re: Railroad I/ Croton Point Sanitary Landfill

Ms. Gianazza:

We are in receipt of your letter dated October 31, 2022, and subsequent request for Brianna Scharf of NYSDEC dated December 9, 2022, regarding information about monitoring wells on site.

Attached are the documents that are available electronically. To the extent that additional documents may be available, they are located at the Landfill Office. You may schedule an appointment to view these documents by contacting Greg Stey at 914- 231-2845 or gps4@westchestergov.com.

It requested that these documents remain confidential and pursuant to New York State Public Officer's Law Section 89(5)(1-a), *et seq*., it is hereby requested that the drawings and site maps enclosed herein be excepted from disclosure under the New York State Freedom of Information Law ("FOIL") on the grounds that said document(s) contain crucial infrastructure information, the disclosure of which could endanger the life or safety of County personnel and the general public, as defined by POL Sec. 86(5). *See also*, POL Sec. 87(2)(f) and (i). The document(s) describe the locations, safeguards, equipment, and controls for the management of leachate and entry points to New York State waterways and/or tributaries. The document(s) show physical locations of the structures, including the construction of same. We believe that the drawings could be used to cause harm to someone with malicious intentions, and if that were the case, the environment, water quality, and human life could be impacted or impaired.

Moreover, the County has a long-standing policy of not sharing any flow schematics or other sensitive information for any of the outfalls and lines. This policy was instituted after September 11, 2001, and included removing previously posted pictures and schematics from the

270 North Avenue
New Rochelle, NY 10701
Telephone: 914-813-5416

County website. For these reasons, the County believes that public disclosure of the above-referenced materials would be contrary to its legitimate concern for the security of its facilities, the protection of its employees, and the protection of the general public and the environment. In addition, the County is hereby requesting that this letter be kept confidential on the same grounds. *See* POL Sec. 89(5)(1-a).

Thank you.

Sincerely,

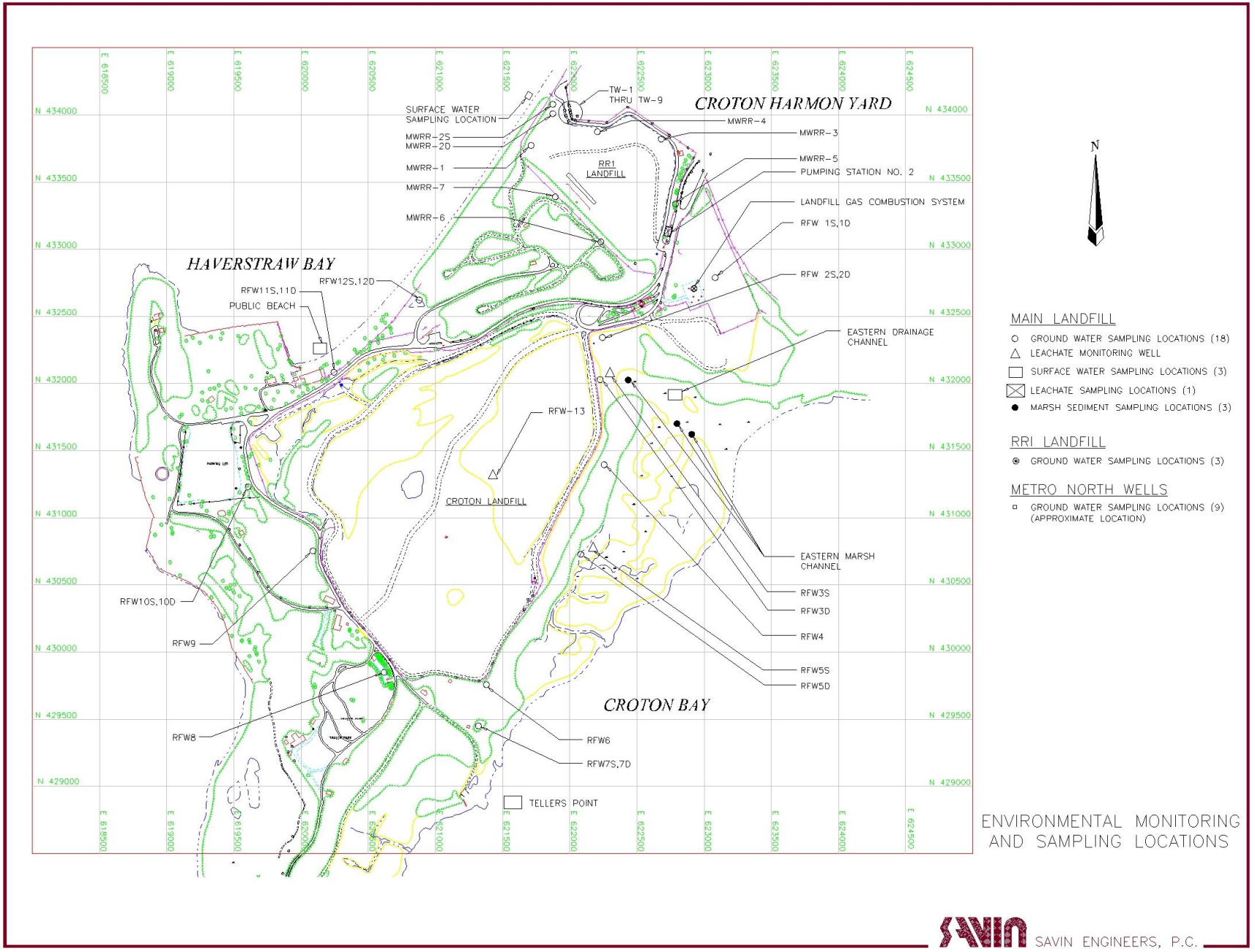
Melissa-Jean Rotini, Esq.
Assistant Commissioner

Enclosures

cc: David G. Pollock, P.E., Regional Environmental Quality Engineer
Brianna Scharf, Project Manager

Louis Vetrone, Esq., Deputy Commissioner
Greg Stey, Landfill Superintendent

Environmental Sampling and Locations Map for Croton & Railroad Sanitary Landfills



Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 4b: Leachate (RR Sump)

Constituent:	**DL/LOQ**	**Units**	**County Daily Wastewater Limits (Avg.)**	**RR Sump**	**RR sump**	**RR sump**	**RR sump**
Sampling Period:				**2018**	**2020**	**2021**	**2022**
Aluminum	50	ug/L		1140	74.7	183	<LOQ
Antimony	20	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	200	64.1	22	28.5	17.9
Barium	1	ug/L	2000	182	440	450	351
Beryllium	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	700	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	3000 (total)	<LOQ	11.1	<LOQ	10.4
Cobalt	10	ug/L		48.3	25.4	32.4	24.3
Copper	50	ug/L	2800	<LOQ	53.3	73.9	126
Lead	10	ug/L	400	<LOQ	<LOQ	<LOQ	<LOQ
Magnaese	10	ug/L		525	99.3	145	96.5
Nickel	10	ug/L	2800	71.9	89.1	91.1	69.6
Selenium	20	ug/L	200	<LOQ	<LOQ	<LOQ	22.4
Silver	20	ug/L	800	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	1800	2200	<LOQ	135	<LOQ
Biochemical Oxygen Demand	2	mg/L		160	80.4	122	59.3
ASP Total Cyanide	0.01	mg/L	0.8	0.033	0.119	0.094	0.014
Hexavalent Chromium, ASP	40	ug/L	2000	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	200	<LOQ	<LOQ	<LOQ	<LOQ
Corrosivity/pH	0.1	Units	5.5 (low)-9.5 (high)	7.37	7.19	7.33	7.04
Phenolics, Total Recoverable	0.025	mg/L		<LOQ	0.017	0.194	0.117
ASP Metal Digestion-Aqueous				Complete	Complete	Complete	Completed
Total kjeldahl nitrogen as N-ASP					400		

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Total Suspended Solids	2	mg/L		250	73	172	18
Total Toxic Organics		mg/L	2.1	0.00211	0.01422	0.010594	
4,4-DDD	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4,4-DDE	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4,4-DDT	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
a-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
a-Chlordane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Aldrin	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
b-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chlordane	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
d-BHC	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dieldrin	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan 1	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan 2	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endosulfan sulfate	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin aldehyde	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Endrin ketone	0.1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
g-Chlordane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Heptachlor	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Heptachlor epoxide	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Lindane	0.05	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methoxychlor	0.1	ug/L		<LOQ	<LOQ	0.144	<LOQ
Toxaphene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1016	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1221	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1232	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
PBC-1242	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PBC-1248	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1254	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
PCB-1260	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromo-3-chloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methyl Iodide	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,4-dichloro-2-butene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L		<LOQ	0.38	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
1,2-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L		<LOQ	2.13	1.51	1.49
2,2-dichloropropane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L		<LOQ	1.34	0.956	1.1
Bromobenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L		2.11	7.78	5.94	5.97
Chloroethane	0.5	ug/L		<LOQ	0.38	0.25	<LOQ
Chloroform	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L		<LOQ	<LOQ	0.41	<LOQ
Hexachlobutadiene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L		<LOQ	0.861	<LOQ	0.506
Methyl iso-butyl ketone	2	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Methyl tert butyl ether	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L		<LOQ	4.61	2.04	3.05
N-Butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L		<LOQ	0.682	<LOQ	<LOQ
O-xylene	0.5	ug/L		<LOQ	0.552	<LOQ	<LOQ
P & M-xylene	1	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-Trichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,2-Dichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,3-Dichlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
1,4-Dichlorobenzene	5	ug/L		<LOQ	1.12	<LOQ	<LOQ
2,4,6-trichlorophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dichlorophenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dimethylphenol	5	ug/L		<LOQ	1.12	<LOQ	<LOQ
2,4- Dinitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,4-Dinitrotoluene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2,6-Dinitrotoluene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
2-Chloronaphthalene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Chlorophenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Methyl-4,6-dinitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
2-Nitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
3,3'-Dichlorobenzidine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Bromophenylphenylether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Chloro-3-methylphenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Chorophenylphenylether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
4-Nitrophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Acenaphthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Aceaphthylene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Azobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzidine	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(a)anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(a)pyrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(b)fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(g,h,i)perylene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzo(k)fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Benzyl butyl phthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-chloroethoxy)methane	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-chloroethyl)ether	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
bis(2-Ethylhexyl)phthalate	5	ug/L		<LOQ	<LOQ	2.06	17.6
Chrysene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dibenzo(a,h)anthracene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dithylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Dimethylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Di-n-butylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Di-n-octylphthalate	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	DL/LOQ	Units	County Daily Wastewater Limits (Avg.)	RR Sump	RR sump	RR sump	RR sump
Fluoranthene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Fluorene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorobutadiene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachlorocyclopentadiene	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Hexachloroethane	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Indeno(1,2,3-cd)pyrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Isophrone	5	ug/L		<LOQ	1.86	<LOQ	<LOQ
Napthalene	5	ug/L		<LOQ	1.58	2.2	<LOQ
Nitrobenzene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodimethylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodi-n-propylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
n-Nitrosodiphenylamine	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Pentachlorophenol	10	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Phenanthrene	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Phenol	5	ug/L		<LOQ	<LOQ	<LOQ	<LOQ
Pyrene	5	ug/L	4000	<LOQ	<LOQ	<LOQ	<LOQ
HEM;Oil & Grease Total recoverable	5	mg/L	100	<LOQ	<LOQ	97.3	5.87
Non-polar Extractable Material (TPH)	2.5	mg/L				6.82	2.57

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2D): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			57.75'	57.75'	57.75'	57.75'
Depth to Water, Tow (ft.)			9.09'	9.35'	9.2'	9.60'
Water Level Elevation (ft.):			48.66'	48.4'	48.5'	48.15'
TOC - TOW (ft.):			10.10'-9.09'	9.55'-9.35'	9.4'-9.2'	9.80'-9.60'
Boron	100	ug/L	133	126	171	189
Calcium	1000	ug/L	93800	67100	84900	85200
Iron	50	ug/L	1100	526	738	760
Magnesium	1000	ug/L	62300	45100	57400	56800
Potassium	100	ug/L	5880	4210	5210	4980
Sodium	1000	ug/L	61800	44900	56800	55900
Aluminum	50	ug/L	251	<LOQ	38	<LOQ
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	344	224	339	273
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	36.7	<LOQ	29.9	22.3
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	1070	738	1150	993
Nickel	10	ug/L	196	129	197	159
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	39.9	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	>500	>500	>500
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	2.2
Asp Calcium by ICP-AES	1000	ug/L	93800	67100	84900	85200
Chloride - ASP	5	mg/L	81	82	90	85
ASP Total Cyanide	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Chemical Oxygen Demand	5	mg/L	98	93	76	77
Color, Apparent	1	units	25	5	75	30
ASP Hardness as Calcium Carbonate	1	mg/L	490	350	450	450
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	62300	45100	57400	56800
Ammonia as N	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Nitrate Calculated	0.05	mg/L	<LOQ	<LOQ	<LOQ	0.136
Corrosivity/pH	0.1	units	7.39	7.22	7.22	7.12

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.008	Not Detected	0.0073
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	7.17	8.22	13.3	9.36
Total Dissolved Solids	2	mg/L	766	738	720	689.3
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.449	0.431	0.443	0.613
Total Organic Carbon	0.1	mg/L as C	35	29.5	28.6	32.5
Turbidity	0.02	NTU	7.98	4.1	198	3.84
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	4.86	6.69	6	7.24
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	2.2	2.66	2.22	2.35
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2D): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2D**	**RR-2D**	**RR-2D**	**RR-2D**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	7.05	9.71	8.45	10.7
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	1.18	1.63	1.24	1.25
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	0.572	0.769	0.511	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	1.14	3.09	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	0.578	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	1.14	1.74	1.22	1.15
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	0.9	0.862	0.632	0.707
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2S): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			29.20'	29.20'	29.20'	29.20'
Depth to Water, Tow (ft.)			10.09'	10.4'	10.15'	10.75'
Water Level Elevation (ft.):			19.11'	18.8'	19.05'	18.45'
TOC - TOW (ft.):			11.10'-10.09'	10.7'-10.4'	10.6'-10.15'	11.00'-10.75'
Boron	100	ug/L	148	144	136	<LOQ
Calcium	1000	ug/L	125000	112000	149000	129000
Iron	50	ug/L	1330	3210	15800	6650
Magnesium	1000	ug/L	53600	46900	64600	54000
Potassium	100	ug/L	5410	5030	7210	5080
Sodium	1000	ug/L	51200	41100	47600	42200
Aluminum	50	ug/L	872	1790	8770	3300
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	300	275	498	323
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	17.4	<LOQ
Cobalt	10	ug/L	39.8	30	47	26.7
Copper	50	ug/L	71.6	136	552	297
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	2830	2610	3990	2770
Nickel	10	ug/L	104	73.4	105	69.3
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	37.9	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	75.9	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	>500	>500	Invalid
BioChemical Oxygen Demand	2	mg/L	<LOQ	3.57	2.8	2.5
Asp Calcium by ICP-AES	1000	ug/L	125000	112000	149000	129000
Chloride - ASP	5	mg/L	77	85	105	100
ASP Total Cyanide	0.01	mg/L	<LOQ	0.012	0.005	<LOQ
Chemical Oxygen Demand	5	mg/L	114	97	75	90
Color, Apparent	1	units	20	10	50	20
ASP Hardness as Calcium Carbonate	1	mg/L	530	470	640	540
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	0.275	<LOQ
ASP Magnesium	1000	ug/L	53600	46900	64600	54000
Ammonia as N	0.05	mg/L	0.0752	0.0725	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Nitrate Calculated	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Corrosivity/pH	0.1	units	6.87	6.79	6.79	6.63

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.007	Not Detected	0.0087
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	45.7	58.7	57	58
Total Dissolved Solids	2	mg/L	854.7	802.7	876	860
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.644	0.708	0.492	0.846
Total Organic Carbon	0.1	mg/L as C	37.3	31.6	32.1	38.5
Turbidity	0.02	NTU	18.5	45.6	397	62.1
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	4.64	6.55	4.55	6.06
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR2S): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-2S**	**RR-2S**	**RR-2S**	**RR-2S**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/30/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Benzene	0.5	ug/L	1.68	1.57	1.12	1.14
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	5.48	6.36	4.59	5
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	0.647	0.739	<LOQ	0.59
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	0.68	13.3	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	0.61	0.934	0.53	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			26.88'	26.88'	26.88'	26.88'
Depth to Water, Tow (ft.)			11.5'	11.2'	11.6'	11.40'
Water Level Elevation (ft.):			15.38'	15.68'	15.28'	15.48'
TOC - TOW (ft.):			12'-11.5'	11.8'-11.2'	12.2'-11.6'	11.90'-11.40'
Boron	100	ug/L	<LOQ	54.2	<LOQ	<LOQ
Calcium	1000	ug/L	77100	66500	85300	108000
Iron	50	ug/L	2810	6220	6150	2720
Magnesium	1000	ug/L	21800	20500	24400	25500
Potassium	100	ug/L	5260	4520	4310	3630
Sodium	1000	ug/L	211000	177000	133000	71300
Aluminum	50	ug/L	<LOQ	227	584	61.3
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	14.2	14.1	<LOQ
Barium	10	ug/L	281	302	345	378
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	497	2070	1330	3550
Nickel	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	417	419	447	351
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	77100	66500	8530	108000
Chloride - ASP	5	mg/L	310	270	180	190
ASP Total Cyanide	0.01	mg/L	0.014	<LOQ	0.011	<LOQ
Chemical Oxygen Demand	5	mg/L	7	9	6	<LOQ
Color, Apparent	1	units	35	5	5	25
ASP Hardness as Calcium Carbonate	1	mg/L	280	250	310	380
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	21800	20500	24400	25500
Ammonia as N	0.05	mg/L	0.114	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	0.122	0.114	0.185	0.138
N-Nitrate Calculated	0.05	mg/L	3.18	1.13	2.2	3.61

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
Corrosivity/pH	0.1	units	7.4	7.6	7.37	7.16
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.007	Not Detected	0.0051
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	19.8	32.3	48.4	45.3
Total Dissolved Solids	2	mg/L	878	852	744	728
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	0.256	0.255	0.417	0.348
Total Organic Carbon	0.1	mg/L as C	0.812	0.933	1.22	1.74
Turbidity	0.02	NTU	22.1	34.8	28.8	44.3
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR3): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-3**	**RR-3**	**RR-3**	**RR-3**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/5/2021**	**6/28/2022**
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	1.5	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			15.85'	15.85'	15.85'	15.85'
Depth to Water, Tow (ft.)			6.5'	6.4'	6.9'	7.80'
Water Level Elevation (ft.):			9.35'	9.45'	8.9'	8.05'
TOC - TOW (ft.):			7.02'-6.5'	7.1'-6.4'	7.6'-6.9'	8.00'-7.80'
Boron	100	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Calcium	1000	ug/L	81900	44900	53700	68400
Iron	50	ug/L	2180	3440	7770	1220
Magnesium	1000	ug/L	28600	16900	19400	22400
Potassium	100	ug/L	6790	3580	4990	6820
Sodium	1000	ug/L	11800	12300	15900	130000
Aluminum	50	ug/L	980	990	2020	340
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	108	108	172	117
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	983	3130	3890	892
Nickel	10	ug/L	<LOQ	<LOQ	10.4	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	170	200	134
Alkalinity as Calcium Carbonate	5	mg/L	282	237	23	316
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	81900	44900	53700	68400
Chloride - ASP	5	mg/L	5	7	31	205
ASP Total Cyanide	0.01	mg/L	0.015	<LOQ	0.11	0.005
Chemical Oxygen Demand	5	mg/L	35	25	8	<LOQ
Color, Apparent	1	units	30	5	75	20
ASP Hardness as Calcium Carbonate	1	mg/L	320	180	210	260
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	28600	16800	19400	22400
Ammonia as N	0.05	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	<LOQ	0.0159	<LOQ
N-Nitrate Calculated	0.05	mg/L	0.327	0.226	0.337	1.8
Corrosivity/pH	0.1	units	6.94	7.25	7.2	7

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.005	Not Detected	0.006
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	32.7	28.7	21.7	16
Total Dissolved Solids	2	mg/L	338	296	236	694
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	1.04	0.612	0.911	0.469
Total Organic Carbon	0.1	mg/L as C	10.2	4.92	3.93	2.94
Turbidity	0.02	NTU	21	50.4	165	14.4
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR4): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-4**	**RR-4**	**RR-4**	**RR-4**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/2/2020**	**5/4/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001
Post Closure Monitoring and Sampling Report, Table 6 (RR5): Groundwater

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Diameter (Inches):			2"	2"	2"	2"
Well Depth, Tow (ft.):			19.35'	19.35'	19.35'	19.35'
Depth to Water, Tow (ft.)			11.04'	11.25'	11.5'	11.50'
Water Level Elevation (ft.):			8.31'	8.1'	7.85'	7.85'
TOC - TOW (ft.):			11.07'-11.04	.55'-11.25'	11.8'-11.5'	11.70'-11.50'
Boron	100	ug/L	<LOQ	64.3	52.7	<LOQ
Calcium	1000	ug/L	152000	101000	103000	133000
Iron	50	ug/L	5810	4040	4350	3630
Magnesium	1000	ug/L	29300	16600	18200	22900
Potassium	100	ug/L	7200	5440	4880	5280
Sodium	1000	ug/L	106000	57700	20800	24500
Aluminum	50	ug/L	<LOQ	<LOQ	111	<LOQ
Antimony	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Arsenic	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Barium	10	ug/L	218	147	158	132
Beryllium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cadmium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chromium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Cobalt	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Copper	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Lead	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Manganese	10	ug/L	1060	682	1200	802
Nickel	10	ug/L	10.4	<LOQ	<LOQ	<LOQ
Selenium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Silver	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Thallium	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vanadium	20	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Zinc	80	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Alkalinity as Calcium Carbonate	5	mg/L	>500	474	366	451
BioChemical Oxygen Demand	2	mg/L	<LOQ	<LOQ	<LOQ	<LOQ
Asp Calcium by ICP-AES	1000	ug/L	152000	101000	103000	133000
Chloride - ASP	5	mg/L	180	60	21	65
ASP Total Cyanide	0.01	mg/L	<LOQ	0.012	0.006	<LOQ
Chemical Oxygen Demand	5	mg/L	12	24	13	6
Color, Apparent	1	units	20	60	15	40
ASP Hardness as Calcium Carbonate	1	mg/L	500	320	330	430
Hexavalent Chromium, ASP	40	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Mercury	0.2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
ASP Magnesium	1000	ug/L	29300	16600	18200	22900
Ammonia as N	0.05	mg/L	0.533	0.383	0.201	0.291
Nitrite Nitrogen as N	0.01	mg/L	<LOQ	0.0285	0.0306	0.027
N-Nitrate Calculated	0.05	mg/L	<LOQ	0.506	0.368	0.568
Corrosivity/pH	0.1	units	6.75	6.89	7.1	6.87

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Phenolics, Total Recoverable	0.025	mg/L	<LOQ	0.006	Not Detected	0.0079
ASP Metal Digestion - Aqueous			Complete	Complete	Complete	Completed
NH4 Preparation			Complete	Complete	Complete	Completed
Sulfate, Aqueous	1	mg/L	40	32.9	30.2	21
Total Dissolved Solids	2	mg/L	872	632	480	642
Total Kjeldahl nitrogen as N-ASP	0.5	mg/L	1.03	1.05	0.881	0.936
Total Organic Carbon	0.1	mg/L as C	3.77	8.38	5.31	6.47
Turbidity	0.02	NTU	10.6	1.76	24.6	17.8
1,2-dibromo-3-chloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dibromoethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-hexanone	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetone	10	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acetonitrile	50	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrolein	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Acrylonitrile	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon Disulfide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl lodide	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Prep. Method		ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trans-1,4-dichloro-2-butene	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl Acetate	5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,1,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2,2-tetrachloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1,2-trichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,1-dirchloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,3-trichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2,4-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3,5-trimethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,3-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4-dichlorobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2,2-dichloropropane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-butanone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
2-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
4-chlorotoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Benzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromobenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ

Constituent:	**DL/LOQ**	**Units**	**RR-5**	**RR-5**	**RR-5**	**RR-5**
Sampling Period:			**2018**	**2020**	**2021**	**2022**
Sampling Date:			**10/31/2018**	**3/3/2020**	**5/5/2021**	**6/28/2022**
Bromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromodichloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromoform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Bromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Carbon tetrachloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chlorobenzene	0.5	ug/L	0.25	0.31	<LOQ	<LOQ
Chloroethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloroform	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Chloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
cis-1,2-dichloroethane	0.5	ug/L	<LOQ	0.525	<LOQ	<LOQ
cis-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromochloromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dibromomethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Dichlorodifluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Ethylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Hexachlobutadiene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Isopropylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl iso-butyl ketone	2	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methyl tert butyl ether	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Methlene Chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Naphthalene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-Butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
N-propybenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
O-xylene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P & M-xylene	1	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
P-isopropyltoluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
SEC-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Styrene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tert-butylbenzene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Tetrachloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Toluene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,2-dichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
trans-1,3-dichloropropene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichloroethene	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Trichlorofluoromethane	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
Vinyl chloride	0.5	ug/L	<LOQ	<LOQ	<LOQ	<LOQ
1,4 Dioxane	1	ug/L				<LOQ

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey
DATE/TIME	6/29/22 710
WELL	RR-1
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS — ID #'s

TVA - 2020 — A3A4B2

U - 10 — 707062

SAMPLING DATA

METHOD: BAILER

START TIME: 715

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	27.05
TOC 20.70 TOW	20.40
LENGHT OF COLUMN	6.65 X .16
VOLUME	1.06 X 3
EVAC. GALLONS	3.1
EVAC. METHOD	Bailer
GALLONS REMOVED	3
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
715	1	7.90	0.763	32.6	16.87
720	2	7.11	1.04	34.0	16.81
725	3	7.06	1.05	33.7	16.52

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	5.0	6.3	6.7	5.0

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 495, 666
C: 0120	CR:	D: 1740	E: 3391
F: 8		G: 4874	S: 3358
EXP K: 8755, 9167, 9085		K: 8158, 8501, 8376	K:

NOTES: 1,4 = 34, 31

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 710	TVA - 2020	A3A4B2
WELL	RR - 25	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 745	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	29.20
TOC 11.00 TOW	10.75
LENGHT OF COLUMN	18.45 X .16
VOLUME	2.9 X 3
EVAC. GALLONS	8.8
EVAC. METHOD	Bailer
GALLONS REMOVED	9
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
745	3	7.24	1.04	22.2	17.67
800	6	6.90	107	291	16.29
815	9	7.06	1.06	47.6	17.42

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	-	—	—
FID	10.5	11.6	11.6	11.6

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 1080, 7606
C: 0114	CR:	D: 1205	E: 4038
F: 384		G: 5083	S: 3364
EXP K: 2187, 0288, 7758		K: 7124, 8517, 9088	K:

NOTES: 1,4 = 28, 32

PAGE 1 OF 1 SIGNATURE: Richard A Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 710	TVA - 2020	A3A4B2
WELL	RR-2D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Pump
		START TIME:	715

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	57.75
TOC 9.80 TOW	9.60
LENGHT OF COLUMN	48.15 X .16
VOLUME	7.7 X 3
EVAC. GALLONS	23.11
EVAC. METHOD	pump
GALLONS REMOVED	24
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
715	8	7.46	0.879	9.1	18.62
725	16	7.33	0.936	9.1	17.02
735	24	7.35	0.948	9.2	16.50

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	13.0	13.7	12.7	10.6

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 786, 738
C: 0205	CR:	D: 1527	E: 3472
F: 235		G: 4980	S: 3354
EXP K: 8884, 8757, 9084		K: 9107, 9074, 8615	K:

NOTES: 1,4 = 33, 35

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 9:50	TVA - 2020	A3A4B2
WELL	RR-3	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 10:00	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	26.88
TOC 11.90 TOW	11.40
LENGHT OF COLUMN	15.48 X .16
VOLUME	2.47 X 3
EVAC. GALLONS	7.43
EVAC. METHOD	Bailer
GALLONS REMOVED	8
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1005	3	7.58	0.934	28.1	18.27
1015	6	7.41	1.07	22.8	17.53
1025	8	7.44	1.06	35.1	17.19

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
	—	—	—	—
FID	10.6	N/A	10.4	11.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 373, 1088
C: 0128 CR:	D: 1366	E: 3352
F: 170	G: 5014	S: 3362
K: 6222, 7413 Exp	K: Exp 810, 1829	K: 0717, 2884

NOTES: Exp 1,4 30, 29

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 900	TVA - 2020	A3A4B2
WELL	RR-4	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	905

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	15.85
TOC 8.00 TOW	7.80
LENGHT OF COLUMN	8.05 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.8
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
905	1	7.24	0.563	61.5	20.74
915	2.5	7.26	0.928	24.7	19.87
925	4	7.10	0.971	43.6	19.69

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
FID	11.1	N/A	10.5	10.5

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 999, 1246
C: 0111 CR:	D: 1267	E: 3267
F: 299	G: 5114	S: 3348
EXP K: 8151, 9101, 7449	K: 8383, 5227, 7457	K:

NOTES: 1,4 = 27, 26

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/28/22 1035	TVA - 2020	A3A4B2
WELL	RR-5	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 1035	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	19.35
TOC 11.70 TOW	11.50
LENGHT OF COLUMN	7.85 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.7
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1040	1	7.42	0.908	34.0	17.99
1050	2.5	7.19	0.882	22.4	17.44
1100	4	7.09	0.851	19.0	16.98

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	9.1	8.9	8.9	8.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 410, 1219
C: 0133 CR:	D: 1590	E: 4114
F: 113	G: 5069	S: 3356
K: 8719 EXP, 8116 EXP	K: 8690, 9094	K: 5773, 7589

NOTES: 1,4 25, 20 EXP

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/29/22 845	TVA - 2020	A3A4B2
WELL	RR-6	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: BAILER	
		START TIME: 845	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	77.65
TOC 69.40 TOW	69.40
LENGHT OF COLUMN	8.25 X .16
VOLUME	1.32 X 3
EVAC. GALLONS	3.96
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
845	1	7.22	0.726	267	18.39
900	2	7.59	0.712	65.1	18.41
915	4	7.25	0.737	22.2	18.51

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.0	—	3.0	3.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1291, 934
C: 0108 CR:	D: 1032	E: 4048
F: 694	G: 5156	S: 3361
EXP K: 8829, 8673, 4395	K: 9083, D193, 8040	K:

NOTES: 1,4 = 15, 16

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/29/22 745	TVA - 2020	A3A4B2
WELL	RR-7	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: BAILER	
		START TIME: 755	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	75.80
TOC 69.00 TOW	68.70
LENGHT OF COLUMN	7.1 X .16
VOLUME	1.1 X 3
EVAC. GALLONS	3.4
EVAC. METHOD	BAILER
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
800	1	6.72	1.22	9.3	17.78
810	2	6.84	1.29	14.7	17.32
820	4	6.77	1.27	10.2	17.19

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.9	3.8	3.8	3.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1257, 1098
C: 1000 CR:	D: 1675	E: 4051
F: 300	G: 4655	S: 3328
EXP K: 8715, 8489, 4334	K: 8644, 1325, 7959	K:

NOTES: 1,4 = 24, 14

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 700	TVA - 2020	A3A4B2
WELL	RFW-1S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	735

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.85
TOC 6.80 TOW	6.60
LENGHT OF COLUMN	11.25 X .16
VOLUME	1.8 X 3
EVAC. GALLONS	5.4
EVAC. METHOD	BAILER
GALLONS REMOVED	6
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
740	2	7.20	1.25	139	17.76
745	4	7.33	1.10	47.8	17.46
750	6	7.18	1.10	57	17.97

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.7	802	300	7.4

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1041, 444
C: 0157 CR:	D: 0473	E: 3484
F: 679	G: 4965	S: 3341
EXP K: 8417, 5595, 8092	K: 8647, 2433, 9093	K:

NOTES: 1,4 = 18, 22

High turb even after 24hrs

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	6/30/22 700
WELL	RFW-1D
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: Pump

START TIME: 730

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	50.90
TOC 2.50 TOW	2.00
LENGHT OF COLUMN	48.9 X .65
VOLUME	31.7 X 3
EVAC. GALLONS	95.3
EVAC. METHOD	Pump
GALLONS REMOVED	96
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
730	32	7.35	11.1	292	18.04
830	64	7.43	11.5	17.8	17.46
	96	Well	not	recovering	
		Sample taken when recovered			

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.6	1.93	1.83	9.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 592, 781
C: 0153 CR:	D: 0842	E: 3341
F: 376	G: 5115	S: 3365
K: 8130, 9019	K: 3271, 9125 Exp	K: 8625 Exp, 6494 Exp

NOTES: 1, 4 36, 13

Well not recovering

PAGE 1 OF 1

SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 930	TVA - 2020	A3A4B2
WELL	RFW-2S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	BAILER
		START TIME:	945

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	20.62
TOC 6.80 TOW	6.30
LENGHT OF COLUMN	14.32 X .16
VOLUME	2.2 X 3
EVAC. GALLONS	6.8
EVAC. METHOD	BAILER
GALLONS REMOVED	7
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
950	2	7.31	2.07	57.0	20.11
955	5	7.19	1.59	47.2	19.21
1005	7	7.26	1.41	20.6	18.42

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.9	49.1	42.1	2.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 977,113
C: 0143 CR:	D: 5017	E: 3306
F: 41	G: 5011	S: 3329
EXP K: X8685 ;1846 ;8015	K: 8363 ;6677 ;6324	K:

NOTES: 40, 45

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	6/30/22 930	TVA - 2020	A3A4B2
WELL	RFW-2D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 945	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	85.40
TOC 7.20 TOW	6.90
LENGHT OF COLUMN	78.5 X .65
VOLUME	51.0 X 3
EVAC. GALLONS	153
EVAC. METHOD	Pump
GALLONS REMOVED	153
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1015	51	7.22	1.96	11.0	17.81
10:45	102	7.93	1.71	8.4	21.65
11:00	153	7.39	1.68	8.7	22.33

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.8	9.0	9.0	2.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B: [redacted]		PP: C:	B: 419, 813
C: 0121	CR:	D: 7298	E: 3295
F: 286		G: 4907	S: 3331
*EXP K 8708; 9154; 8707		K: 1348, 7505, 0746	K:

NOTES: 39, 42

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	715 7/6/22	TVA - 2020	A3A4B2
WELL	RFW-3D	U - 10	707062
WEATHER	Partly Cloudy	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 715	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	95.50
TOC 5.40 TOW	5.10
LENGHT OF COLUMN	90.4 X .16
VOLUME	14.4 X 3
EVAC. GALLONS	43.3
EVAC. METHOD	Pump
GALLONS REMOVED	44
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
735	14	7.66	1.14	10.9	20.50
745	28	7.61	1.01	9.1	20.14
755	44	7.69	1.00	8.7	20.59

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	6.1	406	252	6.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 790, 982
C: 0124	CR:	D: 1211	E: 4066
F: 129		G: 4973	S: 3330
~~K~~ EXPK 8933, 8968, 8289		K: 8965, 8742, 8740	K:

NOTES: 37, 38

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/6/22 810	TVA - 2020	A3A4B2
WELL	RFW-4	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 815	

EVACUATION DATA	
WELL DIAMETER	4"
WELL DEPTH	32.50
TOC 7.70 TOW	7.25
LENGHT OF COLUMN	25.25 X .65
VOLUME	16.4 X 3
EVAC. GALLONS	49.2
EVAC. METHOD	Bailer
GALLONS REMOVED	49
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
830	16	7.25	4.80	11.7	20.74
8:45	32	7.27	4.90	9.2	19.75
855	49	6.91	5.26	9.3	19.70

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	56.3	20.7	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:		PP: C:	B: 462; 1016
C: 0136	CR:	D: 1378	E: 3487
F: 699		G: 4495	S: 3326
K EXP K4122; 8491; 8627		K: K2108; 2162; 2651	K:

NOTES: 46.41

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/6/22 910	TVA - 2020	AJA4B2
WELL	RFW-5D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	pump
		START TIME:	920

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	74.90
TOC 6.70 TOW	6.30
LENGHT OF COLUMN	68.6 X .65
VOLUME	44.59 X 3
EVAC. GALLONS	133
EVAC. METHOD	Pump
GALLONS REMOVED	133
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
940	44	7.49	3.13	22.3	21.70
1030	88	7.36	3.25	14.5	21.18
1130	133	7.45	3.26	11.0	20.80

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.3	1.8	2.0	2.3

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 246, 654
C: 0036 CR:	D: 7436	E: 3435
F: 405	G: 5112	S: 3339
~~K: EXP~~ K: 8346; 8499; 8313	K: 1962, 3812, 1513	K:

NOTES: 43, 47

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	7/7/22 720
WELL	RFW-6
WEATHER	Partly Cloudy
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: BAILER

START TIME: 720

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	63.50
TOC 58.50 TOW	59.60
LENGHT OF COLUMN	5.9 X .65
VOLUME	3.8 X 3
EVAC. GALLONS	11.5
EVAC. METHOD	BAILER
GALLONS REMOVED	12
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
725	4	7.01	3.12	9.9	21.78
730	8	7.31	3.28	31.4	21.00
735	12	7.22	3.29	35.8	21.18

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	6.8	N/A	5.4	5.5

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1040, 902
C: D118 CR:	D: 7306	E: 3433
F: 55	G: 4836	S: 3351
EXP K: 6894, 7744, 9050	K: 7759, 3066, 8372	K:

NOTES: 1,4 = 44,65

PAGE 1 OF 1

SIGNATURE: Richard A. Duval

WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 820	TVA - 2020	A3A4B2
WELL	RFW-7S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	820

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.50
TOC 9.80 TOW	9.20
LENGHT OF COLUMN	8.3 X .16
VOLUME	1.3 X 3
EVAC. GALLONS	3.9
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
8:25	1	7.77	0.63	147	18.87
8:30	2.5	7.77	0.50	129	18.94
9:30	4	7.40	0.47	49.9	18.26

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	3.2	3.2	3.1

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 1289, 425
C: 1002 CR:	D: 6998	E: 3135
F: 425	G: 5168	S: 3327
K: 6754, 2014, 6675	K: 7466, 8447, 2631	K:

GRD

NOTES: 1,4 = 64, 67

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 @ 830	TVA - 2020	A3A4B2
WELL	RFW-70	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 8:30 AM	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	46.70
TOC 8.70 TOW	8.30
LENGHT OF COLUMN	38.4 X .65
VOLUME	24.9 X 3
EVAC. GALLONS	74.8
EVAC. METHOD	Pump
GALLONS REMOVED	75
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
8:45	25	8.31	0.24	11.4	17.49
9:00	50	8.29	0.25	9.8	17.01
9:20	75	8.33	0.25	9.3	17.32

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	3.1	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 968, 414
C: 0137 CR:	D: 1463	E: 3427
F: 245	G: 4755	S: 3355
K: 6783, 6387, 6657 (EP)	K: 9003, 8572, 8626	K:

NOTES: 1,4 = 69, 66

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/7/22 10:00Am	TVA - 2020	A3A4B2
WELL	RFW-8	U - 10	707062
WEATHER	SUNNY	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	10:00 Am

EVACUATION DATA	
WELL DIAMETER	4"
WELL DEPTH	53.95
TOC 49.30 TOW	48.80
LENGHT OF COLUMN	5.15 x .65
VOLUME	3.34 x 3
EVAC. GALLONS	10.0
EVAC. METHOD	Bailer
GALLONS REMOVED	10
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
10:05	3.5	7.35	1.42	85.6	18.50
10:30	7	7.35	1.40	165	18.58
11.00	10.0	7.38	1.37	38.0	18.88

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.2	2.2	2.2	2.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 988, 1233
C: 1527 CR:	D: 1490	E: 3462
F: 123	G: 5101	S: 3352
EXP K: 8502, 8330, 1601	K: 8155, 229, 9072	K:

NOTES: 1,4 = 68, 62

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval
DATE/TIME	7/11/22 715
WELL	RFW-10S
WEATHER	Sunny
TYPE	BASELINE

EQUIPTMENT/METERS	ID #'s
TVA - 2020	A3A4B2
U - 10	707062

SAMPLING DATA

METHOD: Bailer

START TIME: 725

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	17.95
TOC 10.50 TOW	9to.90
LENGHT OF COLUMN	8.05 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.8
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
725	1.2	7.18	1.86	133	20.25
730	2.4	7.18	1.92	34.9	17.35
735	3.8	7.18	2.02	50.9	16.88
				48.2	

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	5.8	4.6	5.3	5.8

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 324; 1278
C: 0079 CR:	D: 0975	E: 3350
F: 104	G: 5046	S: 3347
EXP K: 6048; 6595; 6368	K: 4587; 7121; 7660	K:

NOTES: 1,4 - 50, 63

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 715	TVA - 2020	A3A4B2
WELL	RFW-100	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: pump	
		START TIME: 720	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	44.90
TOC 10.00 TOW	9.00
LENGHT OF COLUMN	35.9 X .65
VOLUME	23.3 X 3
EVAC. GALLONS	70
EVAC. METHOD	pump
GALLONS REMOVED	~~70~~ 25
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
740	23	8.30	0.425	11.5	18.75
750	46	Took sample after 1 volume			
	70				

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	7.3	4.9	5.7	6.0

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 694, 702
C: 0160 CR:	D: 1217	E: 3490
F: 139	G: 5080	S: 3350
K: 6508, 2337, 5540	K: 6819, 6695, 4074	K:

NOTES: 1,4 = 52, 51 Well not recovering took sample after 1 well volume

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/20 830	TVA - 2020	AJA482
WELL	RFW - 11S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Bailer	
		START TIME: 835	

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	11.45
TOC 7.40 TOW	3.8
LENGHT OF COLUMN	7.65 X .16
VOLUME	1.2 X 3
EVAC. GALLONS	3.6
EVAC. METHOD	Bailer
GALLONS REMOVED	4
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
840	1.2	7.61	0.528	287	21.09
855	2.4	7.39	0.800	V29	21.11
910	3.6	7.47	0.854	36.2	20.85

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	1013	3.9

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 665, 1067
C: 1521 CR:	D: 7695	E: 3134
F: 656	G: 4676	S: 3346
EXP K: 6329, 6655, 6619	K: 9052, 6767, 7244	K:

NOTES: 1,4 = 55, 58

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 830	TVA - 2020	A3A4B2
WELL	RFW - 11D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD: Pump	
		START TIME: 830	

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	75.85
TOC 4.00 TOW	3.80
LENGHT OF COLUMN	72.05 X .65
VOLUME	46.8 X 3
EVAC. GALLONS	140
EVAC. METHOD	Pump
GALLONS REMOVED	140
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
840	46	7.08	4.40	10.0	18.21
925	92	7.03	4.39	10.5	20.14
945	140	7.33	4.54	7.9	19.71

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	3.2	N/A	3.7	3.2

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 647, 585
C: 0103 CR:	D: 7292	E: 3315
F: 622	G: 5041	S: 3336
EXP K: 1894, 6722, 8997	K: 1516, 8371, 8906	K:

NOTES: 1,4 = 53,54

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Duval & Stey	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 950	TVA - 2020	A3A4B2
WELL	RFW-12S	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Bailer
		START TIME:	950

EVACUATION DATA

WELL DIAMETER	2"
WELL DEPTH	15.90
TOC 5.90 TOW	4.80
LENGHT OF COLUMN	11.1 X .16
VOLUME	1.77 X 3
EVAC. GALLONS	5.3
EVAC. METHOD	Bailer
GALLONS REMOVED	5.5
STICK UP	

EVACUATION CHEMS

TIME	CALS	PH	COND	TURB	TEMP
	PP				
1010	1.7	7.65	0.401	107	22.38
1015	3.4	7.56	0.377	67.4	19.08
1020	5.3	7.59	0.367	28.6	18.88

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.5	N/A	4.4	2.3

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 426, 270
C: 0122 CR:	D: 5000	E: 4112
F: 11	G: 4890	S: 3337
EXP K: 6716, 6376, 2177	K: 8320, 6966, 8072	K:

NOTES: 1, 4 = 56, 57

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WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMETAL FACILITIES
WELL SAMPLING DATA SHEET

SAMPLER	Stey & Duval	EQUIPTMENT/METERS	ID #'s
DATE/TIME	7/11/22 950	TVA - 2020	A3A4B2
WELL	RFW-12D	U - 10	707062
WEATHER	Sunny	SAMPLING DATA	
TYPE	BASELINE	METHOD:	Pump
		START TIME:	950

EVACUATION DATA

WELL DIAMETER	4"
WELL DEPTH	45.90
TOC 5.4 TOW	4.40
LENGHT OF COLUMN	41.5 X .65
VOLUME	26.9 X 3
EVAC. GALLONS	80.9
EVAC. METHOD	Pump
GALLONS REMOVED	81
STICK UP	

EVACUATION CHEMS

TIME	GALS	PH	COND	TURB	TEMP
	PP				
1005	27	7.45	1.72	17.5	19.39
1030	54	7.92	0.398	75.9	18.72
1055	81	7.50	1.39	11.0	18.40

REAL TIME AIR MONTORING

INSTR	BG	VH	HS	BZ
—	—	—	—	—
FID	2.4	N/A	2.1	2.4

FORMULA FOR EVACUATION GALLONS: DEPTH MINUS TOW EQUALS LENGTH. LENGTH TIMES DIAMETER EQUALS ONE VOLUME. MULTIPLY VOLUME BY THREE. THIS EQUALS GALLONS TO BE REMOVED. (WELL DIAMETER 2" IS .16 & 4" IS .65.

SAMPLING BOTTLES

PP B:	PP: C:	B: 784, 576
C: 0150 CR:	D: 7236	E: 3292
F: 621	G: 6121	S: 3324
EXP K: 6730, 6721, 6439	K: 6371, 2152, 6735	K:

NOTES: 1,4 = 59, 60

PAGE 1 OF 1 SIGNATURE: Richard A. Duval

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/5/22

Project No

Equipment/Meters

ID #'S

Sampler(s) Stey & Duval

Weather/Temp Cloudy 75°

Sample Location I D Bend Right SRF-2A

Sample Type BASELINE

Sample No

Site Description

Notes

S3353, B1251, B944, C0996, D1107, E4033, F331, G5010, EXP K 7408, EXP K 7414, EXP K 9138, K6119, K6713, K8198, 3, 6

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) No Odor, clearish

Approximate depth to bottom 3 ft

			METER READINGS					
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
900			26.62	9.16	8.42			25.3

Comments

Sampler Signature Richard A Duval

Effective Date May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/5/22

	Equipment/Meters	ID #'S
Project No		
Sampler(s) Duval & Stey		
Weather/Temp Cloudy 75°		
Sample Location I D Beach Left SRF-2B		
Sample Type BASELINE		
Sample No		

Site Description

Notes

S3360, B1256, B775, C0126, D1188, E3183, F283, G5009, EXP K0105, K7518 exp, K8501 exp, K6374, K6858, K2396, 12, 9

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) No Odor, clearish

Approximate depth to bottom 3ft

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
915			26.71	9.07	8.39			25.7

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Stey & Duval
Weather/Temp RR Sump #1
Sample Location I.D. ~~BS #2~~ Leachate
Date/Time 730 7/5/22
Sample Type BASELINE
Sample No.
Site Description:

Equipment/Meters

ID#'s

Notes: C0146, E3246, F714, H724, S3342, ExPK6755, 6331, 6540, KM663, 6753, 6653, I4783, 4776, 4750, 4629, 4691, 4428, 4497, 4409, 284

Condition of wet well (defects, level, swell, etc...) No defects found

Describe Leachate (color, foam, etc...) Yellow & little to no foam

Estimate flow in each incoming pipe (as possible) No flow visable

METER READINGS

Time	~~OVA~~	~~HNu~~								
730	BZ	HS	8Z							
FID	9.0	5.7	6.3							

Comments:

Sampler Signature/Date:

LEACHATE SAMPLING
FIELD DATA SHEET

		Equipment/Meters	ID#'s
Project No.			
Sampler(S)	Duval & Stey		
Weather/Temp	Cloudy, 72°		
Sample Location I.D.	RR Sump #1 Leachate Duplicate		
Date/Time	730 7/5/22		
Sample Type	Baseline		
Sample No.			

Site Description: _____

Notes: C016, E3274, F305, H404, S3336, ExPK67416, 6553, 64165, K8269, 7796, 8704 I 4800, 3163, 4504, 274, 4719, 4546, 4862, 4454, 4869

Condition of wet well (defects, level, swell, etc...) No defects found

Describe Leachate (color, foam, etc...) yellow & little to no foam

Estimate flow in each incoming pipe (as possible) No flow visable

METER READINGS

Time	~~OVA~~	~~HNU~~								
730	BZ	HS	BZ							
FID	9.0	5.7	6.3							

Comments: _____

Sampler Signature/Date: _____

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Stey & Duval
Weather/Temp Cloudy 45°
Sample Location I.D. P.S. #2
Date/Time 7/6/22 810
Sample Type ~~Baseline~~ leachate
Sample No.
Site Description:

Equipment/Meters | ID#'s

Notes: LD700, E4018, F683, H268, 53343, EXPK1733, 6830, 1739, K2676, 6748, 5601, I 4767, 4718, 466, 4741, 4724, 4498, 4797, 4439, 4856

Condition of wet well (defects, level, swell, etc...) No defects

Describe Leachate (color, foam, etc...) Heavy oder, Dark, sludge

Estimate flow in each incoming pipe (as possible) Heavy flows, pumps on

METER READINGS

Time	~~OVA~~	~~HNu~~								
810	BZ	HS	BZ							
FID	9.9	38.7	6.6							

Comments:

Sampler Signature/Date:

LEACHATE SAMPLING
FIELD DATA SHEET

Project No.
Sampler(S) Duvall & Stey
Weather/Temp Cloudy 75°
Sample Location I.D. P.S. #02 Duplicate
Date/Time 7/5/22 8:45
Sample Type ~~Bulk Liquid~~ Leachate
Sample No.
Site Description:

Equipment/Meters

ID#'s

Notes: C0059, C3417, F393, H541, S3340, EXP K16764, 7086, 5160, K7006, 6534, 0461, I4781, 4836, 116, 4744, 4575, 4721, 4722, 461, 4478

Condition of wet well (defects, level, swell, etc...) No defects

Describe Leachate (color, foam, etc...) Heavy Oder, Dark, sludge

Estimate flow in each incoming pipe (as possible) Heavy Flow, pumps on

METER READINGS

Time	~~OVA~~	~~HNu~~								
810	BZ	HS	BZ							
FID	9.9	38.7	6.6							

Comments:

Sampler Signature/Date:

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No | Equipment/Meters | ID #'S

Sampler(s): Stey & Duval

Weather/Temp Sunny 85°

Sample Location I D Tellers Point Left SRF-1B

Sample Type BASELINE

Sample No

Site Description

Notes

S3334, B524, B1099, C1001, D1026, E4011, F640, G5178, EXP. K7592, EXP K8956, EXP K8267, K7058, K6545, K6388, 11, 10

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow Yellow, Odorless

Description of water (color, odor, etc)

Approximate depth to bottom 3 ft

METER READINGS

Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
905			26.01	14.1	7.46			22.0

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 2/13/22

Project No

Equipment/Meters

ID #'S

Sampler(s): Duval & Stay

Weather/Temp Sunny 85°

Sample Location I.D Tellers Point Right SRF-1A

Sample Type Baseline

Sample No

Site Description

Notes S3345, B1085, B1090, C0100, D1349 E4119, F209, G-5004, EXP K7556, EXP K9114, EXP K8969, K8972, K7055, K1581, 5, 08

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow yellow, odorless

Description of water (color, odor, etc)

Approximate depth to bottom 3ft

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
900			26.22	14.1	8.18			21.4

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No

Sampler(s) Duval & Stey

Weather/Temp Sunny 85°

Sample Location I D MARSH Left SRF-3B

Sample Type BASELINE

Sample No

Equipment/Meters

ID #'S

Site Description

Notes S 3325, B 715, B 1036, C 0138, D 1311, E 4058
F 697, G 4823, EXP K 7849; 8908; 0176, K 6620; 5123; 8517;
02, 01

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow

Description of water (color, odor, etc) Yellow, Odorless

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
915			25.89	14.3	7.51			21.9

Comments

Sampler Signature Richard A. Duval

Effective Date May 3, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 7/13/22

Project No

Equipment/Meters

ID #'S

Sampler(s) Stey & Duval

Weather/Temp Sumy 85°

Sample Location I D MARSH Right SRF-3A

Sample Type BASELINE

Sample No

Site Description

Notes S3332, B187, B1277, C0129, D0669, E3489, F312, G4653
EXP K8392, EXP K8502, EXP K8484, K5805, K8910, K7429
4, 7

Tidal Status: High @ 932

Low @

Current

Direction of Surface Water Flow Yellow, Odo-Less

Description of water (color, odor, etc)

Approximate depth to bottom 3ft

			METER READINGS					
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
930			26.12	14.2	8.01			22.1

Comments

Sampler Signature Richard A. Duval

Effective Date May 3 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 6/29/22

Project No

Equipment/Meters

ID #S

Sampler(s) Stacy & Duval

Weather/Temp Sunny 80°

Sample Location I D Surface RR Left

Sample Type BASELINE

Sample No

Site Description

Notes S3357, B430, B842, G5111, E4107, F232, D0075, C0104, K8697, K8175, K0379, K6623, K678, K2682 19, 17 Exp Exp Exp

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow Yellow, no odor

Description of water (color, odor, etc)

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
10 15			25.41	7.96	8.13			19.0

Comments

Sampler Signature Richard A. Duval

Effective Date May 1, 2011

Croton Point Landfill

SURFACE WATER SAMPLING: FIELD DATA SHEET

Date 6/29/22

Project No

Equipment/Meters

ID #'S

Sampler(s): Duval & Stey

Weather/Temp Sunny 80°

Sample Location I D Surface RR Right

Sample Type Base Line

Sample No

Site Description

Notes B791, B1243, C0106, D7451, E3260, F325, G5107, S3323 EXP K8925, EXP K6993, EXP K8463, K6591, K8936, K6608 21, 23

Tidal Status: High @

Low @

Current

Direction of Surface Water Flow Yellow, No odor

Description of water (color, odor, etc)

Approximate depth to bottom

METER READINGS								
Time			Temp	Conductivity	pH	Dissolved Oxygen	Salinity	Turb
10 10			25.46	7.98	8.02			19.4

Comments

Sampler Signature Richard A. Duval

Effective Date: May 3, 2011

Table A

Croton Point Sanitary Landfill Railroad 1 Landfill, NYSDEC Site #360001

Summary of Detected VOC Results in ug/l or Parts per Billion (ppb)

Groundwater Samples

Detected Constituent	TOGS 1.1.1 [1]	RR-2D				RR-2S				RR-3				RR-4				RR-5			
		10/30/2018	3/2/2020	5/4/2021	6/28/2022	10/30/2018	3/2/2020	5/4/2021	6/28/2022	10/31/2018	3/2/2020	5/4/2021	6/28/2022	10/31/2018	3/2/2020	5/4/2021	6/28/2022	10/31/2018	3/2/2020	5/4/2021	6/28/2022
1,2-Dichlorobenzene	3	**4.86**	**6.69**	**6**	**7.24**	**4.64**	**6.55**	**4.55**	**6.06**	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	1	**2.2**	**2.66**	**2.22**	**2.35**	**1.68**	**1.57**	**1.12**	**1.14**	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	**7.05**	**9.71**	**8.45**	**10.7**	**5.48**	**6.36**	4.59	5	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethane	5	1.18	1.63	1.24	1.25	0.647	0.739	-	0.59	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	5	0.572	0.769	0.511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	10	1.14	3.09	-	-	0.68	13.3	-	-	-	1.5	-	-	-	-	-	-	-	-	-	-
Naphthalene	10	-	0.578	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	5	1.14	1.74	1.22	1.15	0.61	0.934	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-

VOC = Volatile Organic Compound

"-" = Not detected at concentrations greater than the laboratory Limit of Quantitation

[1] Groundwater standard or guidance value are as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums

4.86 = Concentration exceeds groundwater standard or guidance value

VOC = Volatile Organic Compound

NA = Not available

ATTACHMENT B

Well Monitoring Logs and Free Product Removal Records
January 1, 2023 through March 31, 2023

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	12.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	12.93	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.16	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	1.23	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.1	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.02	0	0	well blocked

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	16.41	0	0	
2/6/2023	-	16.01	0	0	
3/8/2023	-	16.1	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	17.04	17.05	0.01	0	
2/6/2023	16.80	16.81	0.01	0	
3/8/2023	17.15	17.18	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	16.54	16.64	0.1	0	
2/6/2023	16.42	16.43	0.01	0	
3/8/2023	16.79	16.8	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	15.80	16.35	0.55	1.25	
1/12/2023	15.85	16.21	0.36	0	
1/14/2023	15.82	16.2	0.38	0	
1/24/2023	15.82	16.25	0.43	0	
2/1/2023	16.01	16.45	0.44	0	
2/6/2023	16.11	16.55	0.44	0	
2/17/2023	15.95	16.68	0.73	0.75	
2/23/2023	16.10	16.51	0.41	0	
3/8/2023	15.93	16.29	0.36	0	
3/13/2023	15.68	15.98	0.3	0	
3/21/2023	15.67	16.01	0.34	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	10.93	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	10.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.32	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	13.22	13.65	0.43	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	16.94	16.95	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	18.14	18.36	0.22	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	13.69	13.71	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	11.9	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	8.69	0	0	
1/12/2023	-	9.45	0	0	
1/19/2023	-	9.21	0	0	
1/24/2023	-	9.18	0	0	
2/1/2023	-	9.38	0	0	
2/6/2023	-	9.41	0	0	
2/17/2023	-	9.35	0	0	
2/23/2023	-	9.61	0	0	
2/27/2023	-	9.52	0	0	
3/8/2023	-	9.06	0	0	
3/13/2023		8.81	0	0	
3/21/2023	-	9.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	8.36	8.66	0.3	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	9.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	8.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	9.91	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	8.38	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	14.58	14.59	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/4/2023	15.16	15.17	0.01	0	Drum-1.11
1/12/2023	15.14	15.15	0.01	0	Drum-1.15
1/14/2023	15.18	15.19	0.01	0	Drum-1.17
1/24/2023	15.13	15.14	0.01	0	Drum-1.16
2/1/2023	14.81	14.82	0.01	0	Drum-1.17
2/6/2023	14.68	14.69	0.01	0	Drum-1.15
2/22/2023	15.01	15.02	0.01	0	Drum-1.19
2/23/2023	15.35	15.36	0.01	0	Drum-1.22
2/27/2023	15.53	15.54	0.01	0	Drum-1.20
3/8/2023	15.28	15.29	0.01	0	Drum-1.24
3/12/2023	15.13	15.14	0.01	0	
3/13/2023	15.21	15.22	0.01	0	Drum-1.25

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/28/2022 stated '1.10 ft'. Approximately 3 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	10.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	13.53	13.54	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	13.26	13.27	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	5.61	0	0	
2/6/2023	-	5.65	0	0	
3/8/2023	11.13	11.19	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	14.62	14.63	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/4/2023	15.98	15.99	0.01	0	Drum- 0.52
1/12/2023	15.85	15.86	0.01	0	Drum-0.55
1/19/2023	15.81	15.82	0.01	0	
1/24/2023	15.48	15.49	0.01	0	Drum-0.52
2/1/2023	14.72	14.73	0.01	0	Drum-0.51
2/6/2023	15.48	15.49	0.01	0	Drum-0.52
2/17/2023	15.45	15.46	0.01	0	Drum-0.51
2/23/2023	16.28	16.29	0.01	0	Drum-0.55
2/27/2023	16.38	16.39	0.01	0	Drum-0.53
3/8/2023	16.28	16.29	0.01	0	Drum-0.52
3/13/2023	16.09	16.10	0.01	0	Drum-0.55
3/21/2023	15.82	15.83	0.01	0	Drum-0.54

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/28/2022 stated 'drum 0.56 ft'. Free product not removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	6.58	6.77	0.19	0	
2/6/2023	6.58	7.50	0.92	0	
3/8/2023	6.78	7.05	0.27	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	10.58	10.59	0.01	0	
1/12/2023	10.86	10.87	0.01	0	
1/19/2023	10.81	10.82	0.01	0	
1/24/2023	10.08	10.09	0.01	0	
2/1/2023	10.28	10.29	0.01	0	
2/6/2023	10.47	10.48	0.01	0	
2/8/2023	10.58	10.63	0.05	0	
2/17/2023	10.41	10.42	0.01	0	
3/8/2023	10.67	10.69	0.02	0	
3/13/2023	10.52	10.53	0.01	0	
3/21/2023	10.64	10.65	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	13.68	13.74	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	9.67	9.68	0.01	0	
1/12/2023	10.08	10.09	0.01	0	
1/19/2023	10.05	10.07	0.02	0	
1/24/2023	9.21	9.23	0.02	0	
2/1/2023	9.55	9.56	0.01	0	
2/6/2023	9.55	9.56	0.01	0	
2/8/2023	9.71	9.72	0.01	0	
2/17/2023	9.51	9.52	0.01	0	
2/23/2023	10.71	10.72	0.01	0	
2/27/2023	10.74	10.75	0.01	0	
3/8/2023	10.25	10.26	0.01	0	
3/13/2023	10.19	10.20	0.01	0	
3/21/2023	10.11	10.12	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	12.65	13.01	0.36	0	
1/12/2023	12.9	13.3	0.4	0	
1/19/2023	12.85	13.55	0.7	0.88	
1/24/2023	12.15	12.71	0.56	0.75	
2/1/2023	12.11	12.59	0.48	0	
2/6/2023	12.42	13.05	0.63	0.75	
2/17/2023	12.36	12.95	0.59	0	
2/23/2023	13.11	13.48	0.37	0	
2/27/2023	13.04	13.81	0.77	1.13	
3/8/2023	12.77	13.55	0.78	0.38	
3/13/2023	12.74	13.15	0.41	1	
3/21/2023	12.75	13.19	0.44	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	9.76	9.94	0.18	0	
1/12/2023	9.75	9.96	0.21	0	
1/19/2023	9.61	9.82	0.21	0	
1/24/2023	8.82	9.28	0.46	0	
2/1/2023	9.18	9.59	0.41	0	
2/6/2023	9.67	9.84	0.17	0	
2/8/2023	9.65	9.84	0.19	0	
2/17/2023	9.55	9.76	0.21	0	
2/23/2023	10.15	10.30	0.15	0	
2/27/2023	9.75	10.15	0.4	0.5	
3/8/2023	9.75	10.03	0.28	0	
3/13/2023	9.69	10.05	0.36	0	
3/21/2023	9.66	9.89	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	13.78	0	0	
1/12/2023	-	13.94	0	0	
1/19/2023	13.85	13.96	0.11	0	
1/24/2023	-	13.49	0	0	
2/1/2023	13.35	13.36	0.01	0	
2/6/2023	13.46	13.47	0.01	0	
2/17/2023	13.41	14.06	0.65	0.88	
2/23/2023	14.20	14.23	0.03	0	
2/27/2023	14.04	14.12	0.08	0	
3/8/2023	13.92	14.25	0.33	0	
3/13/2023	13.92	13.98	0.06	0	
3/21/2023	13.81	13.86	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	9.92	10.21	0.29	0	
1/12/2023	9.96	10.24	0.28	0	
1/19/2023	9.87	10.25	0.38	0	
1/24/2023	9.51	9.81	0.3	0	
2/1/2023	9.52	9.95	0.43	0	
2/6/2023	9.82	10.15	0.33	0	
2/17/2023	9.77	10.05	0.28	0	
2/23/2023	10.29	10.65	0.36	0	
2/27/2023	10.41	10.81	0.4	0	
3/8/2023	10.01	10.31	0.3	0	
3/13/2023	9.90	10.6	0.7	0	
3/21/2023	9.91	10.27	0.36	0	

*Measured height of Free Product accumulated in drum. Spill Buster ™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	12.42	12.61	0.19	0	
1/12/2023	12.39	12.54	0.15	0	
1/19/2023	12.21	12.55	0.34	0	
1/24/2023	11.85	11.91	0.06	0	
2/1/2023	11.92	12.23	0.31	0	
2/6/2023	12.11	12.65	0.54	0.63	
2/17/2023	12.09	12.33	0.24	0	
2/23/2023	12.68	13	0.32	0	
2/27/2023	12.46	13.21	0.75	1	
3/8/2023	12.41	12.45	0.04	0	
3/13/2023	12.38	12.91	0.53	0.63	
3/21/2023	12.36	12.66	0.3	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	12.28	12.29	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	13.13	13.14	0.01	0	
2/6/2023	13.05	13.45	0.4	0	
3/8/2023	13.35	13.72	0.37	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	12.81	0	0	
2/6/2023	12.55	12.75	0.2	0	
3/8/2023	12.85	12.86	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	4.78	5.17	0.39	0	
1/12/2023	5.55	5.85	0.3	0	
1/19/2023	5.51	5.81	0.3	0	
1/24/2023	4.55	6.02	1.47	0	
2/1/2023	4.75	5.08	0.33	0	
2/6/2023	4.83	5.24	0.41	0	
2/17/2023	4.96	5.33	0.37	0	
2/23/2023	6.50	7.01	0.51	0	
2/27/2023	4.94	5.33	0.39	0	
3/8/2023	5.30	5.31	0.01	0	
3/13/2023	5.35	5.51	0.16	0	
3/21/2023	5.46	5.55	0.09	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
1/4/2023	14.27	14.28	0.01	0	Drum-0.52
1/12/2023	14.31	14.32	0.01	0	Drum-0.55
1/19/2023	14.27	14.28	0.01	0	Drum-0.54
1/24/2023	14.03	14.04	0.01	0	Drum-0.52
2/1/2023	13.93	13.94	0.01	0	Drum-0.51
2/6/2023	14.18	14.19	0.01	0	Drum-0.52
2/13/2023	14.61	14.62	0.01	0	Drum-0.51
2/17/2023	14.05	14.06	0.01	0	Drum-0.51
2/23/2023	14.6	14.61	0.01	0	Drum-0.55
2/27/2023	14.71	14.72	0.01	0	Drum-0.53
3/8/2023	10.48	10.49	0.01	0	Drum-0.52
3/28/2023	14.31	14.32	0.01	0	Drum-0.54

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 12/28/2022 stated 'drum 1.60 ft'; however, reportedly actual measurement on 12/28/2022 was 0.60 ft. Free product not removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	6.89	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	9.11	9.75	0.64	0.75	
1/12/2023	9.14	9.30	0.16	0	
1/19/2023	9.05	9.41	0.36	0	
1/24/2023	8.41	8.85	0.44	0	
2/1/2023	8.31	8.58	0.27	0	
2/6/2023	8.52	8.88	0.36	0	
2/17/2023	8.55	8.99	0.44	0	
2/23/2023	9.45	9.88	0.43	0	
2/27/2023	9.16	9.78	0.62	1	
3/8/2023	9.13	9.83	0.7	1.13	
3/13/2023	-	15.68	0	0	
3/21/2023	9.14	9.39	0.25	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	6.32	6.45	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	6.90	6.91	0.01	0	
2/6/2023	6.53	6.54	0.01	0	
3/8/2023	7.01	7.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	7.21	7.22	0.01	0	
2/6/2023	-	6.98	0	0	
3/8/2023	7.61	7.62	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	7.42	7.43	0.01	0	
2/6/2023	7.53	7.54	0.01	0	
3/8/2023	7.88	7.96	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	11.61	11.79	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	12.76	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2023	-	13.46	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	7.56	0	0	
1/12/2023	-	8.18	0	0	
1/19/2023	-	8.05	0	0	
1/24/2023	-	7.58	0	0	
2/1/2023	7.65	7.71	0.06	0	
2/6/2023	7.98	7.99	0.01	0	
2/17/2023	8.02	8.05	0.03	0	
2/23/2023	8.05	8.32	0.27	0	
2/27/2023	8.68	8.69	0.01	0	
3/8/2023	7.66	7.67	0.01	0	
3/13/2023	-	7.63	0	0	
3/21/2023	-	8.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	7.61	0	0	
1/12/2023	-	7.75	0	0	
1/19/2023	7.61	7.62	0.01	0	
1/24/2023	-	7.23	0	0	
2/1/2023	7.45	7.46	0.01	0	
2/6/2023	7.9	7.91	0.01	0	
2/17/2023	7.68	7.75	0.07	0	
2/23/2023	-	7.95	0	0	
2/27/2023	8.5	8.51	0.01	0	
3/8/2023	7.71	7.81	0.1	0	
3/13/2023	7.65	7.66	0.01	0	
3/21/2023	-	8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	6.96	0	0	
1/12/2023	-	7.71	0	0	
1/19/2023	-	7.55	0	0	
1/24/2023	-	6.51	0	0	
2/1/2023	-	7.11	0	0	
2/6/2023	-	7.71	0	0	
2/17/2023	7.78	7.81	0.03	0	
2/23/2023	-	7.89	0	0	
2/27/2023	-	8.38	0	0	
3/8/2023	-	7.13	0	0	
3/13/2023	-	7.12	0	0	
3/21/2023	-	7.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	7.78	8.12	0.34	0	
1/19/2023	7.85	8.15	0.30	0	
1/24/2023	7.51	7.92	0.41	0	
2/1/2023	7.55	7.82	0.27	0	
2/6/2023	8.16	9.19	1.03	0	
2/17/2023	8.15	9.06	0.91	0	
2/23/2023	8.22	8.98	0.76	0	
2/27/2023	8.39	9.7	1.31	0	
3/8/2023	8.01	8.82	0.81	0	
3/13/2023	7.95	8.89	0.94	0	
3/21/2023	7.96	9.98	2.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	-	7.92	0	0	
1/12/2023	-	8.4	0	0	
1/19/2023	-	8.32	0	0	
1/24/2023	-	7.76	0	0	
2/1/2023	7.95	8.02	0.07	0	
2/6/2023	-	8.31	0	0	
2/17/2023	-	8.11	0	0	
2/23/2023	-	8.42	0	0	
2/27/2023	8.81	8.82	0.01	0	
3/8/2023	-	8.01	0	0	
3/13/2023	-	8.03	0	0	
3/21/2023	-	8.61	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2023	4.01	4.02	0.01	0	
1/12/2023	4.91	4.92	0.01	0	
1/19/2023	4.56	4.57	0.01	0	
1/24/2023	3.56	3.57	0.01	0	
2/1/2023	4.13	4.42	0.29	0	
2/6/2023	5.01	5.02	0.01	0	
2/17/2023	4.98	4.99	0.01	0	
2/23/2023	5.12	5.13	0.01	0	
2/27/2023	6.05	6.09	0.04	0	
3/8/2023	4.38	4.39	0.01	0	
3/13/2023	4.21	4.22	0.01	0	
3/21/2023	-	5.75	0	0	

ATTACHMENT C

Waste Disposal Manifest

Straight Bill of Lading

D143115

Please type or print

ACV ENVIRO

1. Generator EPA ID # (if applicable)	2. Page 1 of	3. Emergency Response #	4. Document Tracking Number
NYD084006477	1	908-354-0210	ACV 148645

Generator

5. Generator Name and Mailing Address

MTA METRO NORTH RAILROAD
525 NORTH BROADWAY
WHITE PLAINS, NY 10603

Generator Phone: 914.461.0560

Generator's Site Address (if different)

MTA METRO-NORTH RAILROAD
HARMON YARD 100 CROTON HARMON YARDS
CROTON ON HUDSON, NY 10520

ACV Job Number:

6. Transporter 1 Company Name: ACV ENVIRONMENTAL SERVICES, INC
US EPA ID Number (if applicable): NJD003812047

7. Transporter 2 Company Name
US EPA ID Number (if applicable)

8. Designated Facility Name and Mailing Address

CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH, NJ 07206

US EPA ID Number (if applicable): NJD002200046

8. Designated Facility Phone: 908-355-5800

9a. HM	9b. Material Description (Proper shipping name required if DOT Hazardous Material)	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit (Wt/Vol)	13. Waste Codes
	1. Non DOT/Non-RCRA Liquid (Misc OUII Oil)	007	DM	EST 3150	P	72
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

D143115 SO 145341 SFSO#

1)Profile#220041 (70) OUII OIL RECOVERY

Truck-TR-0104
Plate - AW-9630
DC - 008677

TL - 6046
Plate - TUW-47P
DC - 008894
Cubic Yard - 96

16. Generator/Offeror's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded and are in all respects proper condition for transport according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Month	Day	Year
Karen Miele on behalf of Metro North Railroad	Karen Miele	01	17	23

Transporter

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Luis Revi	LR	1	17	23

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

Facility

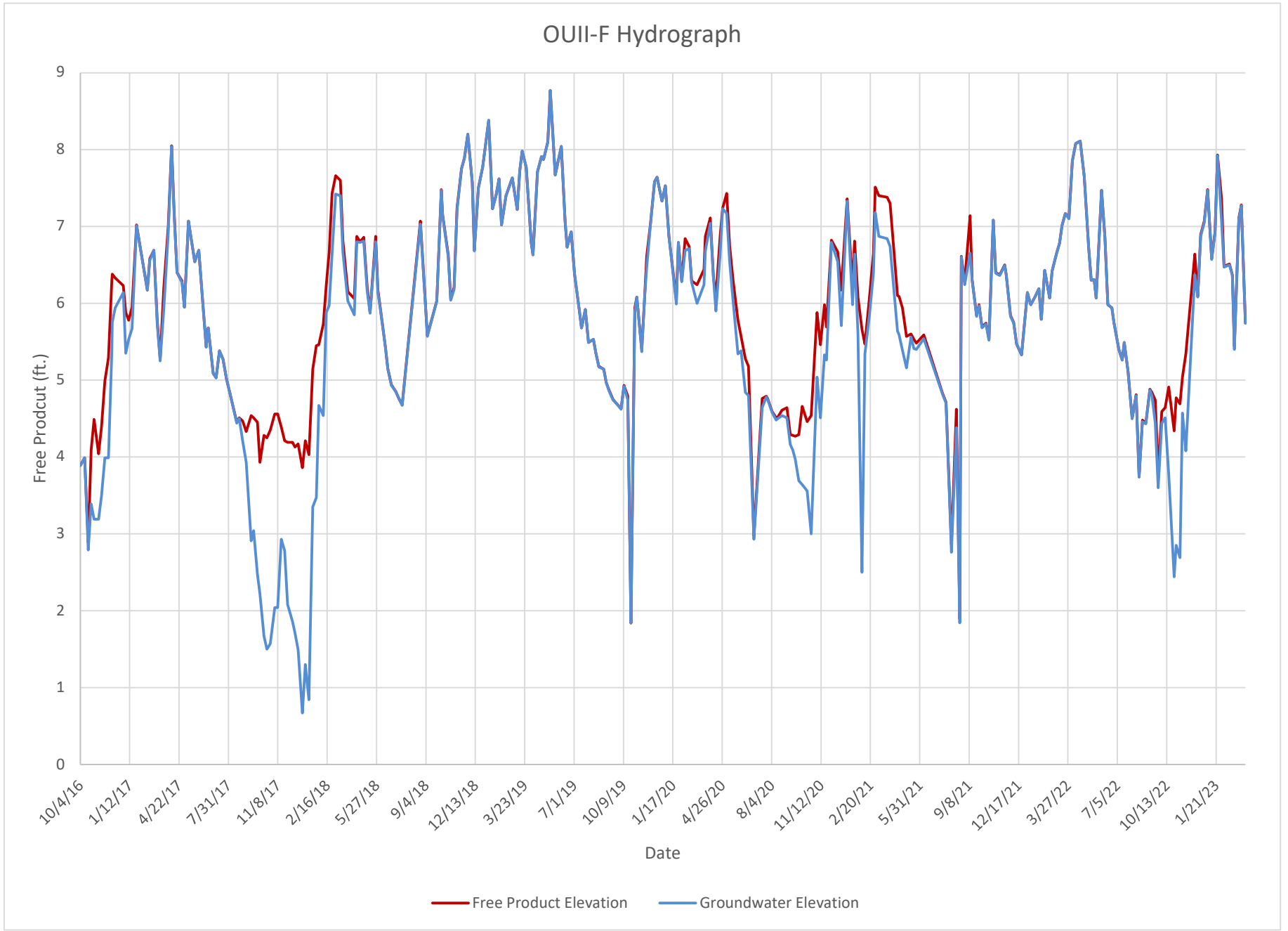
19. Discrepancy Indication Space (to be completed by Designated Facility)

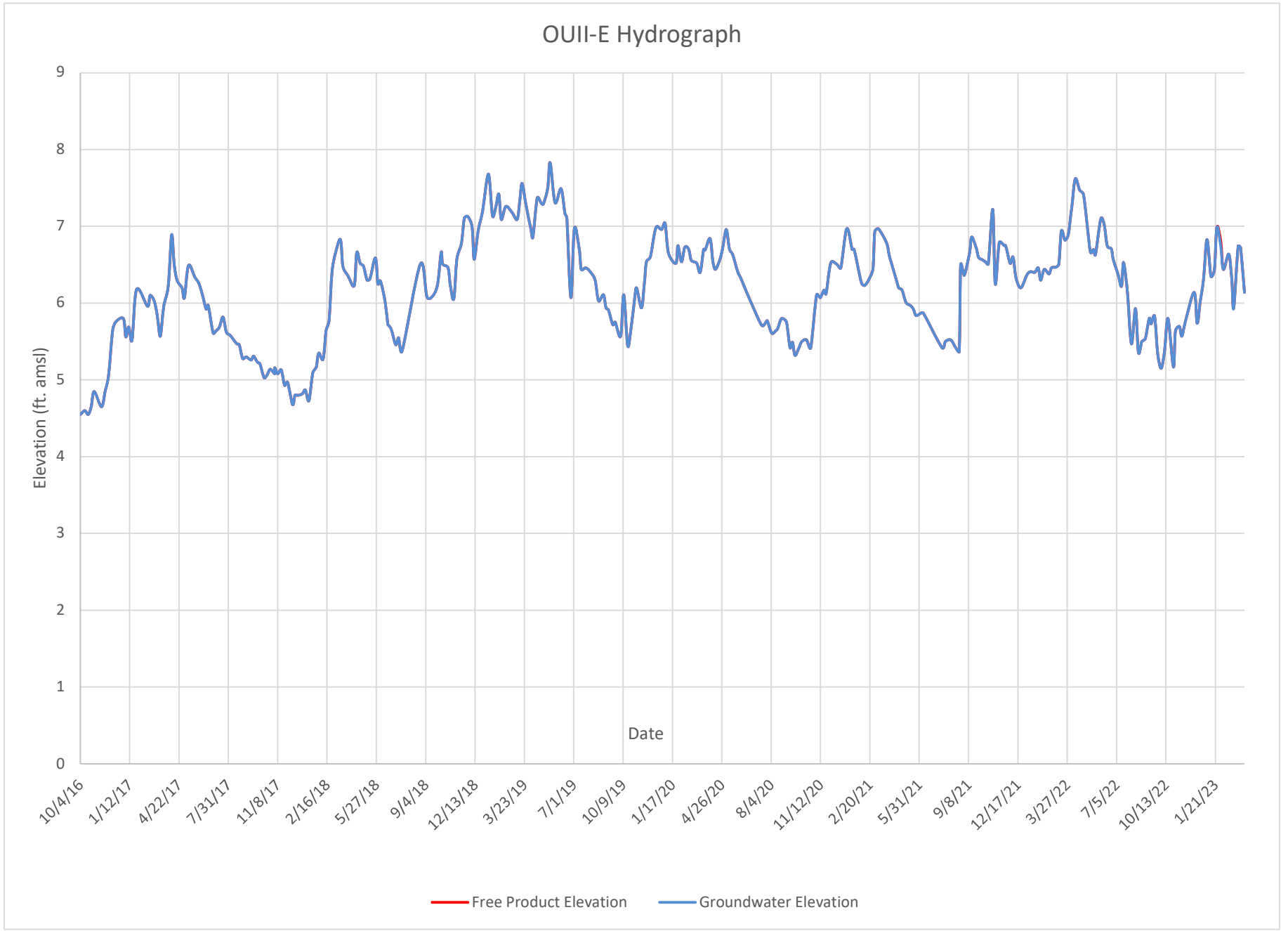
20. Discrepancy Facility: Certification of receipt of the materials covered by this shipping paper except as noted in item 19

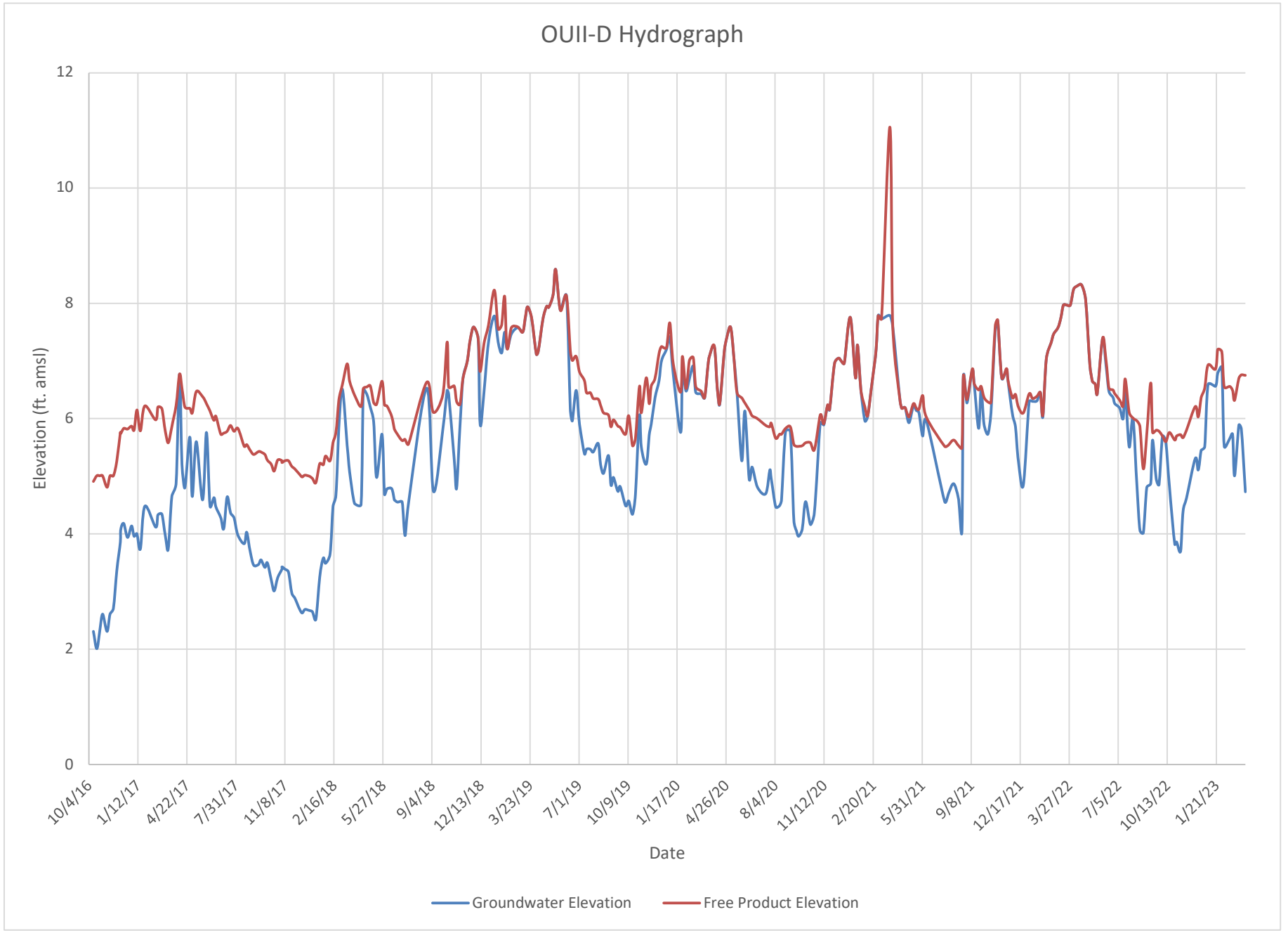
Printed/Typed Name	Signature	Month	Day	Year
Robson		01	18	23

ATTACHMENT D

Off-Site Monitoring Well Hydrographs


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
Date
Free Product Elevation
Groundwater Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
Free Product Elevation
Groundwater Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
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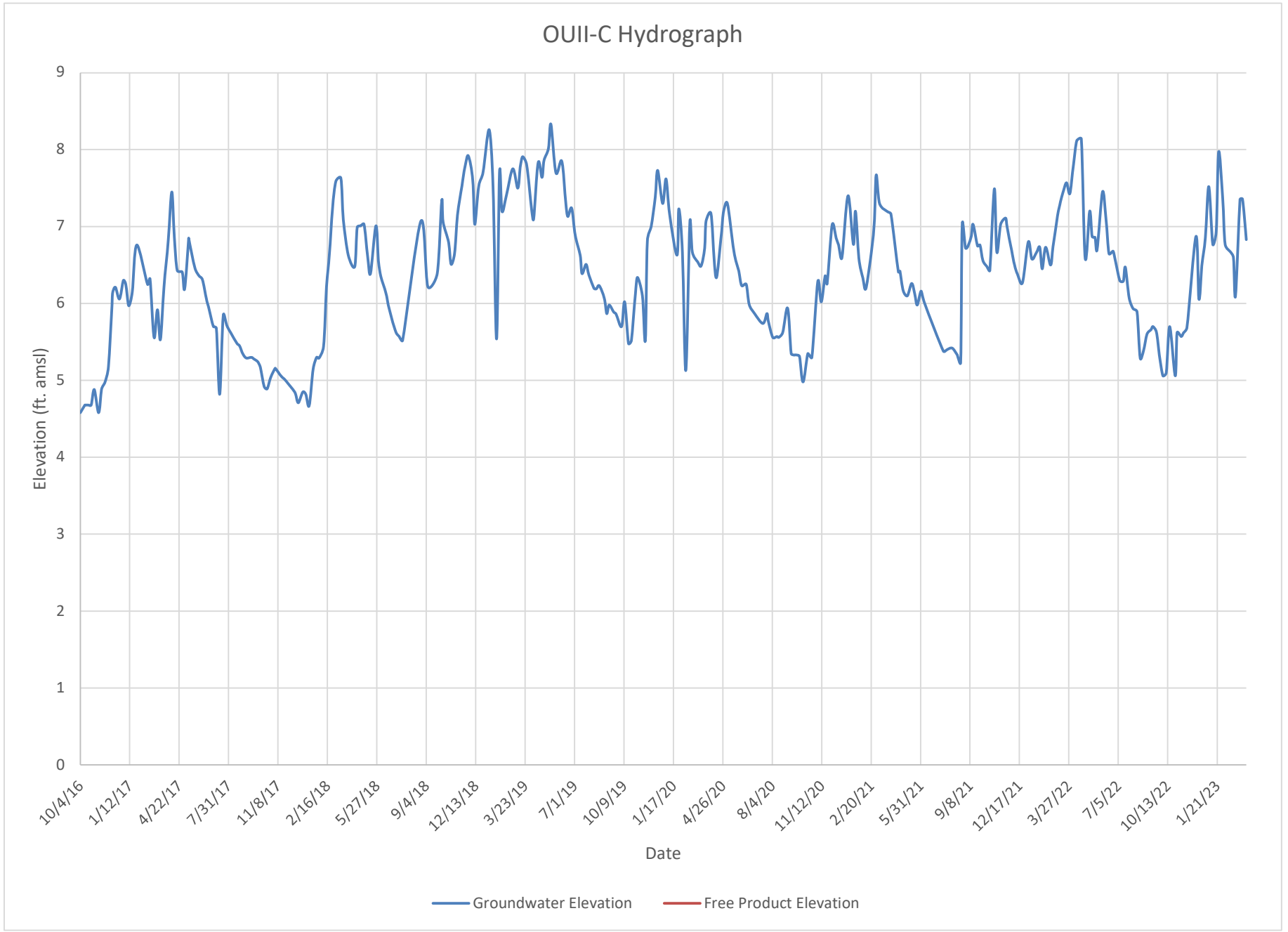
7/5/22
10/13/22
1/21/23
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
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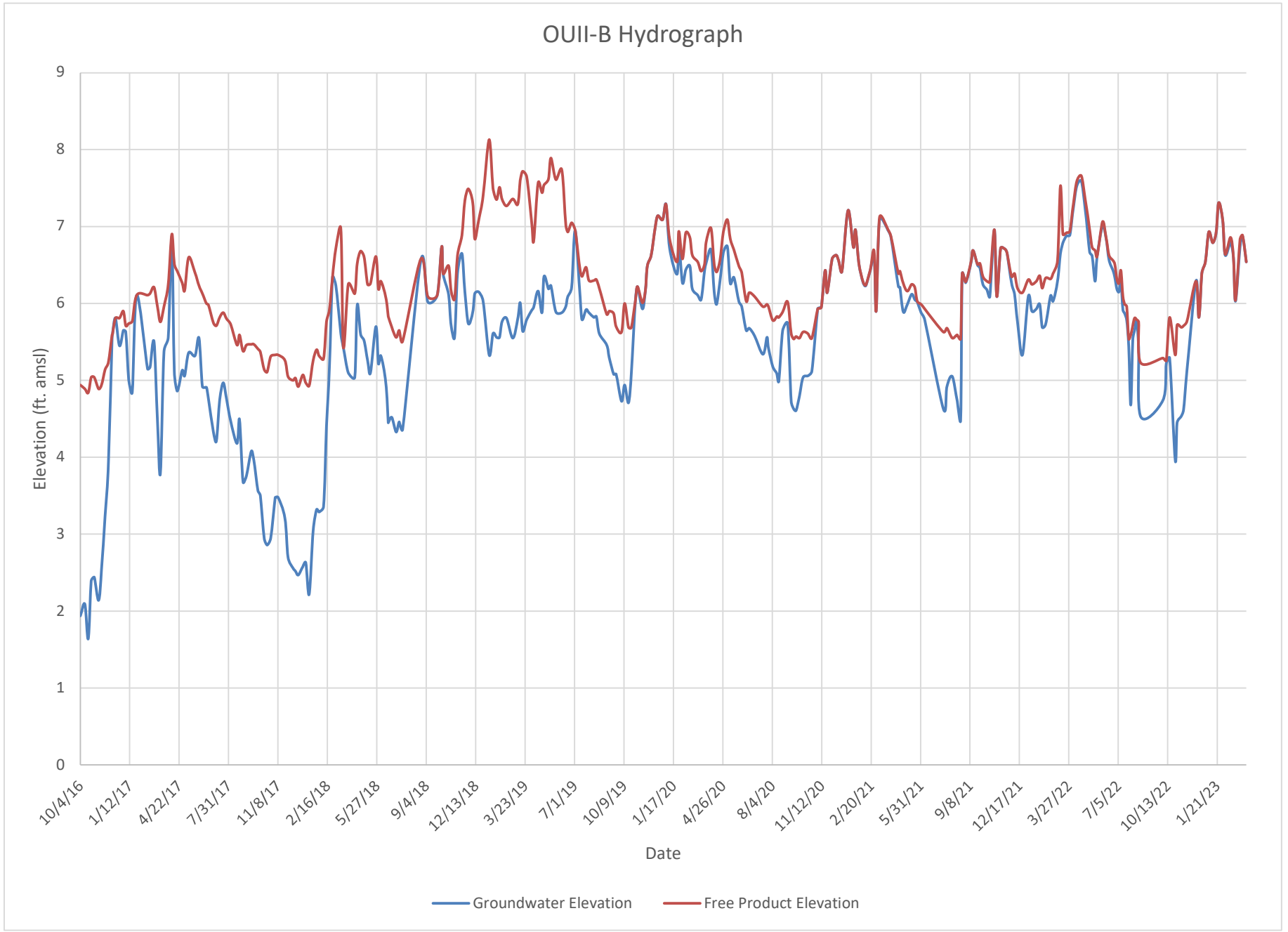
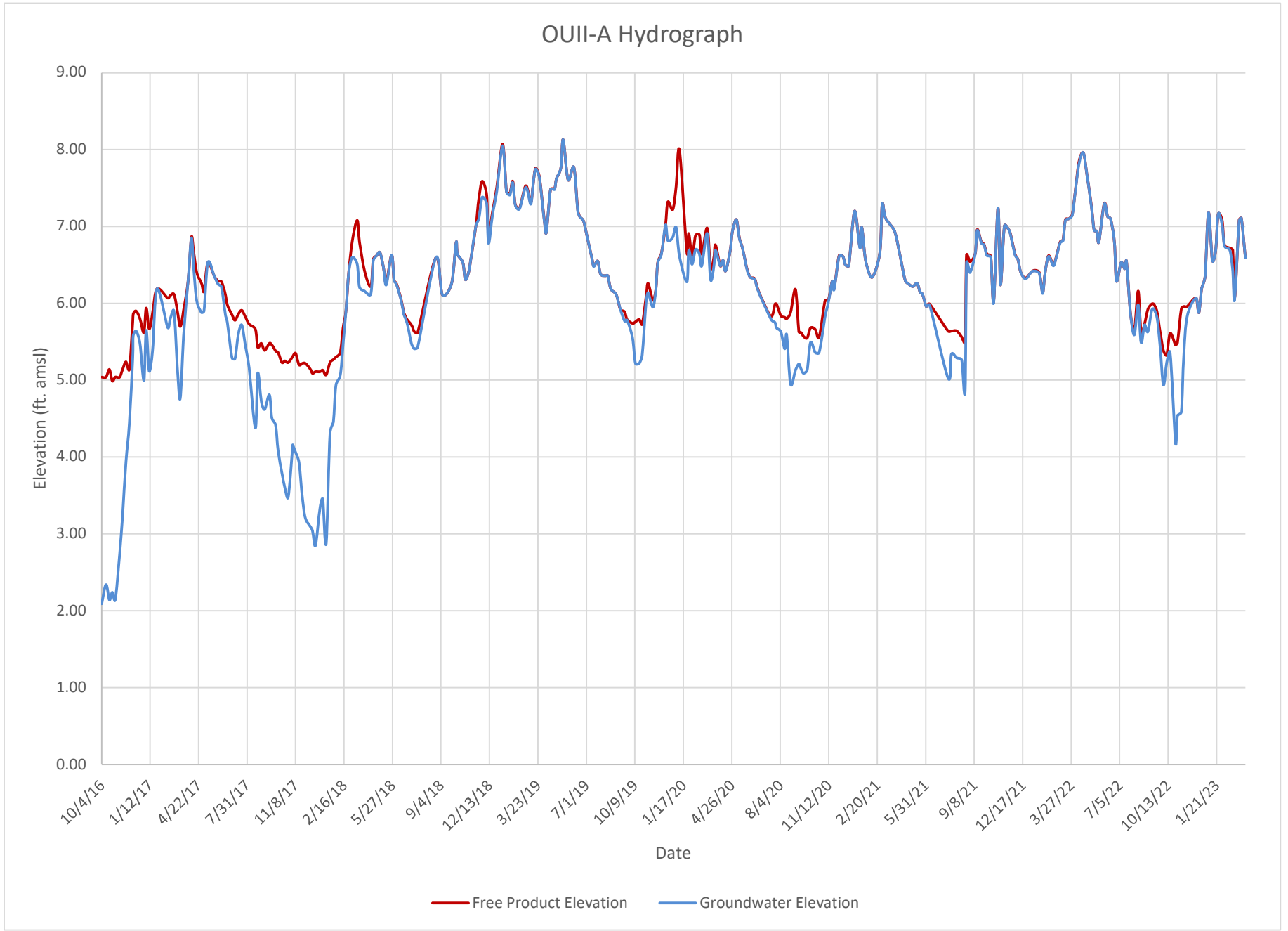
3/27/22
7/5/22
10/13/22
1/21/23
Date
Groundwater Elevation
Free Product Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
Date
Groundwater Elevation
Free Product Elevation


OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
Date
Free Product Elevation
Groundwater Elevation

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: APRIL 1, 2023 THROUGH JUNE 30, 2023

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between April 1, 2023 and June 30, 2023 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured between May 10, 2023 and May 16, 2023 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and March 31, 2023) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between April 1, 2023 and June 30, 2023) and the preceding report period (i.e., between January 1, 2023 and March 31, 2023) is included as Figure 2.

During the report period, wells RW-1, FA4-8, and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product.

Higher amounts of free product were removed from wells RW-1 and AI2-3 in the current report period (i.e., April 1, 2023 to June 30, 2023) compared to the previous report period (i.e., January 1, 2023 to March 31, 2023). Specifically, 15.6 gallons of free product were removed from well AI2-3 in the current report period compared to 3.0 gallons in the previous report period and 54.4 gallons of free product were removed from well RW-1 in the current report period compared to no free product removed from well RW-1 in the previous report period. Free product was not removed from well FA4-8 during the current or previous report periods.

A total of approximately 79.9 gallons of free product was removed from wells at the Site during the current report period. The majority of the free product was removed from NAPL Area L4 (i.e., approximately 62.8 gallons). The total amount of free product removed in the previous reporting period (i.e., between January 1, 2023 and March 31, 2023) was approximately 16.4 gallons. The total amount

of free product removed in a similar calendar period (i.e., between April 1, 2022 and June 30, 2022) was 43.0 gallons. Since January 1, 2013, approximately 5,066 gallons of free product or approximately 113 gallons per reporting period (i.e., every three months) has been removed from the Site.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected from full 55-gallon drums for laboratory testing during the current report period and drums were not removed for off-site disposal.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is currently scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation.

DATA USABILITY SUMMARY REPORTS:

Data Usability Summary Reports (DUSRs) have been received for testing completed in 2019 through 2023, and Tables 3 through 7 are updated with the information provided in the respective DUSRs.

Copies of the DUSRs are included in Attachment B. [Note: The DUSR related to PFAS testing completed in 2023 has not been received as of the date of this report. This DUSR will be included in the next status report.] The EqUIS submittals will be updated to incorporate applicable modifications warranted by the DUSR results.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment B. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-C, OUII-D, OUII-E, and OUII-F, ranging in thickness between 0.1 ft. and 1.64 ft. The thicknesses of free product measured in the off-site monitoring wells during this period were comparable or lower to the thicknesses measured in previous report periods in the spring timeframe (i.e., April through June) except for OUII-D, which increased when compared to the three previous spring report periods. Free product was not recovered from the off-site monitoring wells.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been previously detected in off-site well OUII-E. [Note: Free product was detected in well OUII-E on one occasion in the current report period at a reported thickness of 0.01 ft. This measurement may have been the result of equipment error.] As shown on Figure 3, the amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected typically decreases when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on April 21, 2023 by MNR.

During the April 21, 2023 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Cracks were observed in the asphalt cover of OU-I.
- A missing cap was observed on well P-7. No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on April 21, 2023, including photographs, is included in Attachment D. The next inspection is scheduled for October 2023.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between July 1, 2023 and August 31, 2023), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a Spill Buster™ in one of these wells is functional, but that limited free product remains in that location (i.e., if minimal free product removal continues in well FA4-8), the Spill Buster(s)™ may be removed and installed in a well with higher levels of free product (e.g., FA4-14, FA4-17, or VE4-5) and/or the function of the Spill Buster™ should be confirmed. Free product detected in wells not containing a Spill Buster™ system should be removed using a bailer or portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022 and March 2023. If the apparent blockage observed during the August 2022 and March 2023 groundwater sampling event in monitoring well VE 3-1 cannot be removed, a replacement well will be required.

The next OU-I/OU-II inspection is due on or about October 31, 2023. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., July 1, 2023 through September 30, 2023) will be submitted in October 2023.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an

alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: April 1, 2023 through June 30, 2023
Table 2: Historic Free Product Removal Totals: December 1, 2012 through March 31, 2023
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: May 2023
Figure 2: Summary of Free Product Removal for the Report Periods April 1, 2023 – June 30, 2023 and October 1, 2022 – March 31, 2023
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: April 1, 2023 – June 30, 2023
Attachment B: Data Usability Summary Reports
Attachment C: Off-Site Monitoring Well Hydrographs
Attachment D: Site Inspection

\\dayfs\files\Clients - Major\MNR\Harmon Yard\Remediation Reports\OU I & OU II\OUI-OUII Status Reports\2023-07 Q2 2023 Status Report\Site ID 360010 OUI OUII Status Report Apr-Jun 2023.docx

TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: April 1, 2023 through June 30, 2023

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0
Total	**0**

OU II	
Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	2
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**1.5**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	15.6
VE2-1	0
Total	**15.6**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	1
FA4-13	0
FA4-14	2.89
FA4-15	0.75
FA4-16	0
FA4-17	2.13
FA4-18	0.63
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	54.4
VE4-1	0
VE4-5	1.38
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**62.81**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - March 31, 2023

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.31
Total	**196.805**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	22.89
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**32.882**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1056.03
VE2-1	0
Total	**1057.66**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	12.67
FA4-13	101.8
FA4-14	309.54
FA4-15	87.04
FA4-16	76.56
FA4-17	85.97
FA4-18	119.34
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1825.4
VE4-1	0
VE4-5	236.28
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3682.71**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 JH	7.31 JH	19.1 JH	3.78 JH	1.84 JH
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

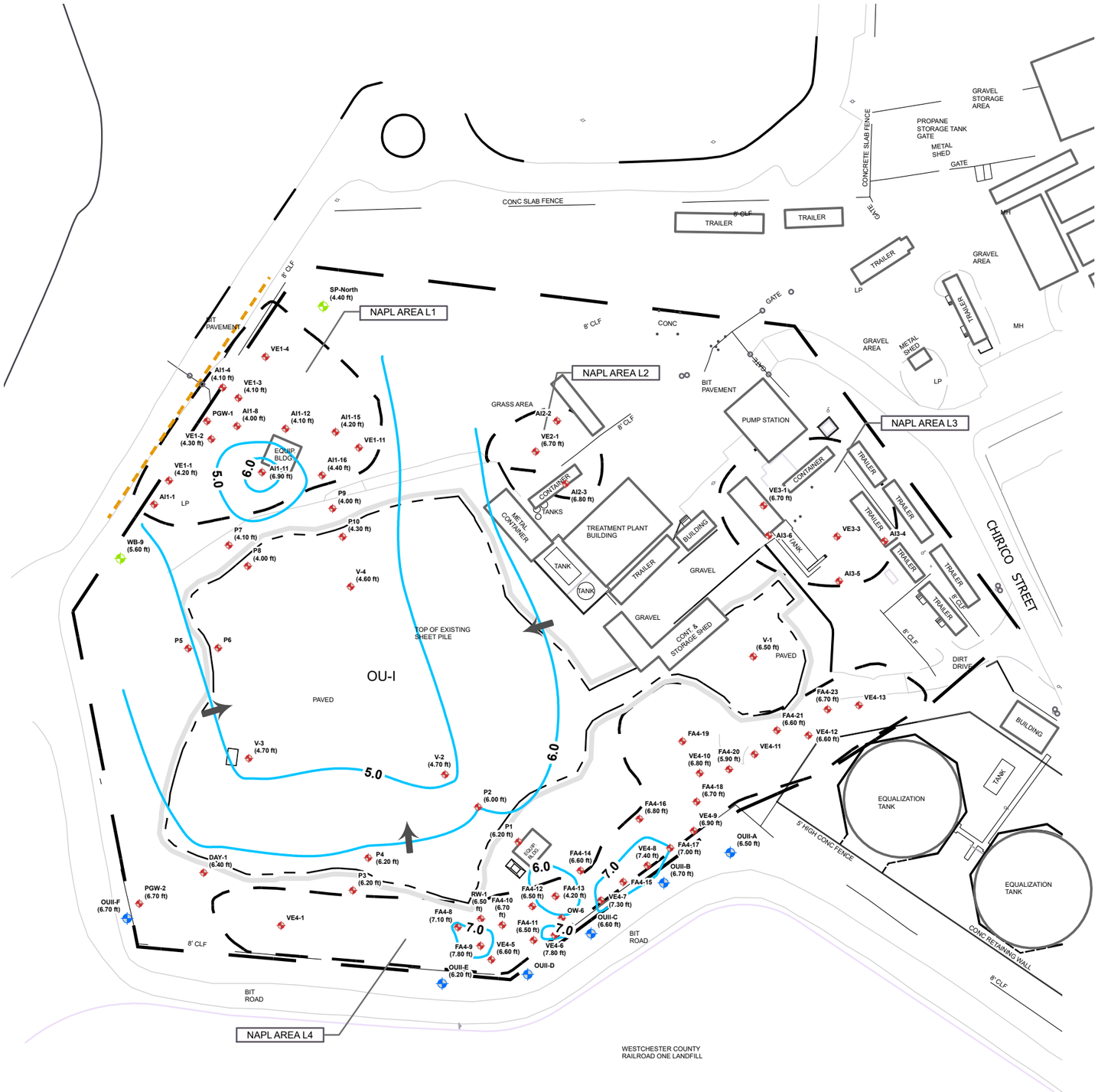
Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

N

LEGEND:

- VE 4-6 (7.82 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 2023
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	08-2023
DRAWN BY	CPS
DATE DRAWN	08-2023
SCALE	As Noted
DATE ISSUED	08-04-2023

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

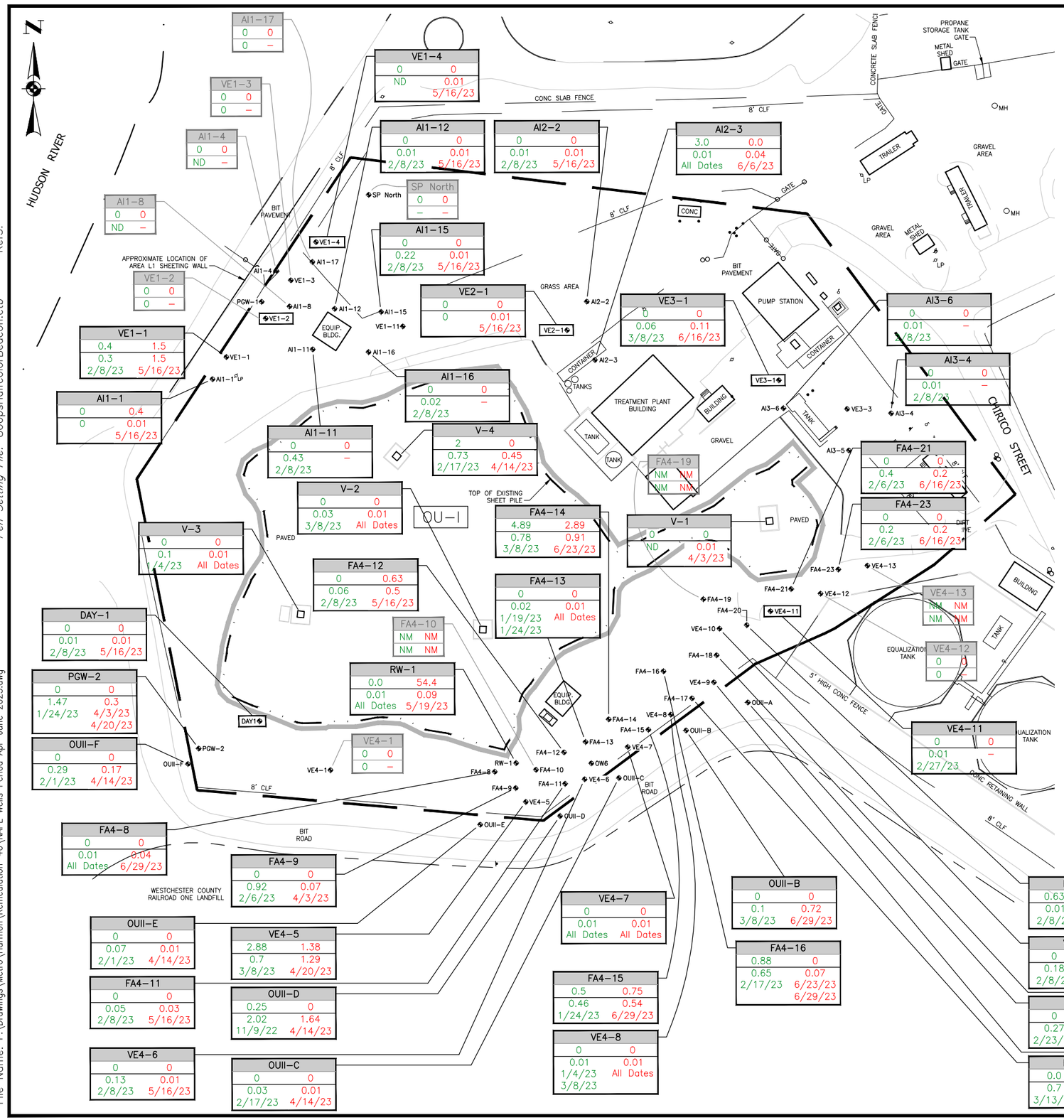
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: May 2023

Project No.
23-3690M

FIGURE 1



SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells
- FA4–14 (4.89 / 2.89 / 0.78 / 0.91 / 3/8/23 / 6/23/23) — Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement
- Measurements Made During The Report Period January 1, 2023 Through March 31, 2023 Shown In Green (Left)
- Measurements Made During The Report Period April 1, 2023 Through June 30, 2023 Shown In Red (Right)
- NM — Well Not Measured
- ND — Not Detected

PROJECT MANAGER	HMM
DATE	8/2023
DRAWN BY	RJM/CPS/TW
DATE DRAWN	8/2/2023
SCALE	As Noted
DATE ISSUED	8/2/2023

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO–NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU–I AND OU–II
CROTON–ON–HUDSON, NEW YORK
NYSDEC SITE #360010

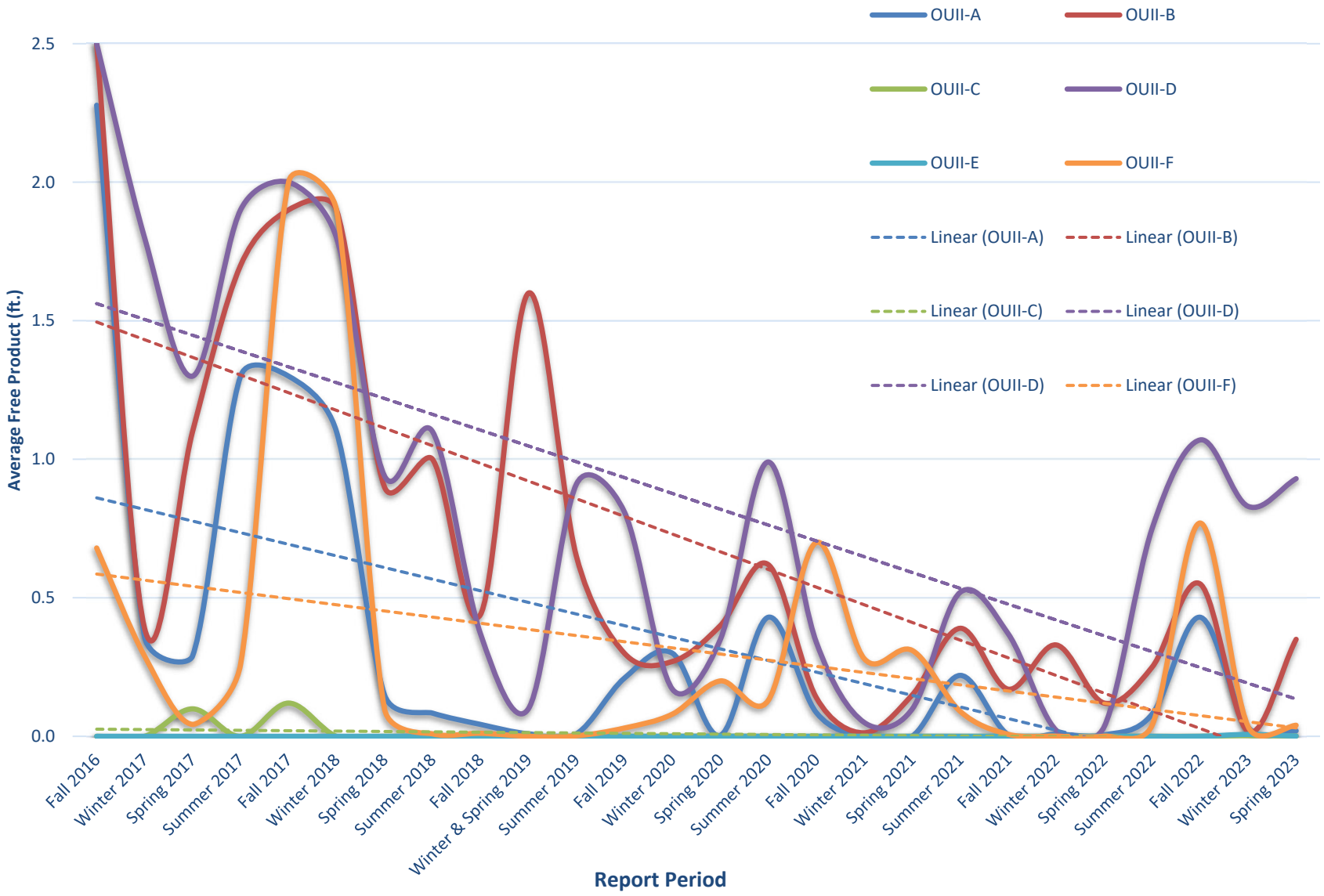
DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
January - March 2023 and April - June 2023

PROJECT NO.
23-3690M

FIGURE 2

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb
Ref1:
Ref2:
Ref3:
Time Plotted: Wednesday, August 2, 2023 8:13:05 AM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Apr–June 2023.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
April 1, 2023 through June 30, 2023

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	5.03	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.37	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.84	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	16.08	16.09	0.01	0	
5/10/2023	-	16.01	0	0	
6/16/2023	-	16.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	17.06	17.07	0.01	0	
5/10/2023	16.52	16.53	0.01	0	
6/16/2023	16.48	16.49	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	16.75	16.76	0.01	0	
5/10/2023	16.19	16.20	0.01	0	
6/16/2023	16.23	16.24	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	15.94	16.23	0.29	0	
4/14/2023	16.000	16.45	0.45	0	
4/20/2023	16.12	16.51	0.39	0	
4/27/2023	15.98	16.09	0.11	0	
5/10/2023	15.37	15.45	0.08	0	
5/14/2023	15.38	15.52	0.14	0	
5/23/2023	15.78	15.88	0.1	0	
5/31/2023	15.95	16.32	0.37	0	
6/5/2023	15.98	16.31	0.33	0	
6/6/2023	15.98	16.31	0.33	0	
6/14/2023	16.08	16.15	0.07	0	
6/23/2023	16.21	16.43	0.22	0	
6/29/2023	16.1	16.33	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.68	13.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/0/1900	-	9.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.09	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	10.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	16.65	16.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	18.15	18.16	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.53	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	11.73	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	9.48	0	0	
4/14/2023	-	9.61	0	0	
4/20/2023	-	9.6	0	0	
4/27/2023	-	9.25	0	0	
5/10/2023	-	8.86	0	0	
5/19/2023	-	8.8	0	0	
5/23/2023	-	9.25	0	0	
5/31/2023	-	9.85	0	0	
6/6/2023	-	9.44	0	0	
6/14/2023	-	9.85	0	0	
6/23/2023	-	9.68	0	0	
6/29/2023	-	9.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	8.1	9.6	1.5	1.5	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.26	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.68	13.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	14.68	14.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/3/2023	15.28	15.29	0.01	0	Drum-1.37
4/14/2023	15.39	15.4	0.01	0	Drum-1.43
4/20/2023	15.42	15.43	0.01	0	Drum-1.52
4/27/2023	15.26	15.27	0.01	0	Drum-1.60
5/10/2023	14.90	14.91	0.01	0	Drum-1.64
5/14/2023	14.86	14.87	0.01	0	Drum-1.65
5/16/2023	14.99	15.00	0.01	0	
5/23/2023	15.26	15.27	0.01	0	Drum-1.69
5/31/2023	15.30	15.31	0.01	0	Drum-1.70
6/6/2023	15.34	15.38	0.04	0	Drum-1.69
6/14/2023	15.55	15.56	0.01	0	Drum-1.90
6/23/2023	15.56	15.57	0.01	0	Drum-2.14
6/29/2023	15.48	15.49	0.01	0	Drum-2.15

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/13/2023 stated '1.25 ft'. Approximately 15.6 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	10.80	10.81	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	16.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	11.19	11.2	0.01	0	
5/10/2023	10.76	10.84	0.08	0	
6/16/2023	10.85	10.96	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	15.47	15.48	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/3/2023	16.25	16.26	0.01	0	Drum-0.52
4/14/2023	16.41	16.42	0.01	0	Drum-0.58
4/20/2023	16.55	16.56	0.01	0	Drum-0.64
4/27/2023	16.31	16.32	0.01	0	Drum-0.55
5/10/2023	15.78	15.79	0.01	0	Drum-0.57
5/19/2023	15.51	15.52	0.01	0	Drum-0.59
5/23/2023	16.24	16.25	0.01	0	Drum-0.56
5/31/2023	16.38	16.39	0.01	0	Drum-0.55
6/6/2023	16.48	16.49	0.01	0	
6/14/2023	16.64	16.65	0.01	0	Drum-0.55
6/23/2023	16.79	16.8	0.01	0	Drum-0.55
6/29/2023	16.65	16.69	0.04	0	Drum-0.56

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/21/2023 stated 'drum 0.54 ft'. Free product not removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.11	7.18	0.07	0	
5/10/2023	6.58	6.59	0.01	0	
6/16/2023	6.59	6.61	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	11.28	11.29	0.01	0	
4/14/2023	11.45	11.46	0.01	0	
4/20/2023	11.49	11.5	0.01	0	
4/27/2023	10.74	10.75	0.01	0	
5/10/2023	10.57	10.58	0.01	0	
5/16/2023	10.92	10.95	0.03	0	
5/19/2023	10.48	10.49	0.01	0	
5/23/2023	11.18	11.19	0.01	0	
5/31/2023	11.18	11.19	0.01	0	
6/6/2023	11.54	11.55	0.01	0	
6/14/2023	11.66	11.67	0.01	0	
6/23/2023	11.78	11.79	0.01	0	
6/29/2023	16.52	16.53	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.85	14.35	0.50	0.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	10.55	10.56	0.01	0	
4/5/2023	10.85	10.86	0.01	0	
4/14/2023	10.80	10.81	0.01	0	
4/27/2023	10.44	10.45	0.01	0	
5/10/2023	10.19	10.2	0.01	0	
5/16/2023	10.34	10.35	0.01	0	
5/19/2023	10.2	10.21	0.01	0	
5/23/2023	10.62	10.63	0.01	0	
5/31/2023	10.84	10.85	0.01	0	
6/6/2023	10.97	10.98	0.01	0	
6/14/2023	11.07	11.08	0.01	0	
6/23/2023	11.22	11.23	0.01	0	
6/29/2023	11.01	11.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	13.05	13.69	0.64	0.63	
4/14/2023	13.29	13.61	0.32	0	
4/20/2023	13.32	13.62	0.3	0	
4/27/2023	13.00	13.66	0.66	0	
5/10/2023	12.75	12.98	0.23	0	
5/19/2023	12.62	12.82	0.2	0	
5/23/2023	13.06	13.49	0.43	0	
5/31/2023	13.18	13.81	0.63	0.88	
6/6/2023	13.28	13.59	0.31	0	
6/14/2023	13.38	13.71	0.33	0	
6/23/2023	13.51	14.42	0.91	1.38	
6/29/2023	13.35	13.42	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	10.06	10.21	0.15	0	
4/14/2023	10.25	10.56	0.31	0	
4/20/2023	10.35	10.65	0.3	0	
4/27/2023	9.95	10.04	0.09	0	
5/10/2023	9.61	9.97	0.36	0	
5/16/2023	9.81	9.98	0.17	0	
5/19/2023	9.50	9.92	0.42	0	
5/23/2023	10.11	10.14	0.03	0	
5/31/2023	10.21	10.62	0.41	0	
6/6/2023	10.38	10.71	0.33	0	
6/14/2023	10.41	10.91	0.5	0	
6/23/2023	10.55	10.89	0.34	0	
6/29/2023	10.48	11.02	0.54	0.75	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	14.10	14.13	0.03	0	
4/14/2023	14.31	14.33	0.02	0	
4/20/2023	14.32	14.33	0.01	0	
4/27/2023	14.06	14.12	0.06	0	
5/10/2023	13.67	13.69	0.02	0	
5/19/2023	13.52	13.53	0.01	0	
5/23/2023	14.09	14.11	0.02	0	
5/31/2023	14.24	14.25	0.01	0	
6/6/2023	14.36	14.39	0.03	0	
6/14/2023	14.52	14.56	0.04	0	
6/23/2023	14.64	14.71	0.07	0	
6/29/2023	14.55	14.62	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	10.24	10.84	0.6	1.38	
4/14/2023	10.51	10.92	0.41	0	
4/20/2023	10.55	10.97	0.42	0	
4/27/2023	10.15	10.31	0.16	0	
5/10/2023	9.80	10.09	0.29	0	
5/19/2023	9.72	9.93	0.21	0	
5/23/2023	10.25	10.43	0.18	0	
5/31/2023	10.38	10.91	0.53	0.75	
6/6/2023	11.52	11.64	0.12	0	
6/14/2023	10.64	10.68	0.04	0	
6/23/2023	10.76	11.11	0.35	0	
6/29/2023	10.61	11.25	0.64	0.75	

*Measured height of Free Product accumulated in drum. Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	12.62	13.15	0.53	0.63	
4/14/2023	12.90	12.91	0.01	0	
4/20/2023	13.12	13.13	0.01	0	
4/27/2023	12.63	12.65	0.02	0	
5/10/2023	12.22	12.32	0.1	0	
5/19/2023	12.2	12.31	0.11	0	
5/23/2023	12.71	12.77	0.06	0	
5/31/2023	12.54	12.78	0.24	0	
6/6/2023	12.92	12.99	0.07	0	
6/14/2023	13.01	13.06	0.05	0	
6/23/2023	13.13	13.38	0.25	0	
6/29/2023	13.00	13.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	13.55	13.7	0.15	0	
5/10/2023	13.08	13.27	0.19	0	
6/16/2023	13.12	13.32	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	14.96	14.98	0.02	0	
5/10/2023	12.55	12.74	0.19	0	
6/16/2023	12.40	12.6	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	5.89	6.19	0.30	0	
4/14/2023	6.50	6.75	0.25	0	
4/20/2023	6.55	6.85	0.30	0	
4/27/2023	5.46	5.48	0.02	0	
5/10/2023	5.49	5.55	0.06	0	
5/19/2023	5.21	5.29	0.08	0	
5/23/2023	5.15	5.21	0.06	0	
5/31/2023	6.72	7.01	0.29	0	
6/6/2023	6.84	6.98	0.14	0	
6/14/2023	7.12	7.13	0.01	0	
6/23/2023	7.31	7.39	0.08	0	
6/29/2023	7.12	7.21	0.09	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/3/2023	14.45	14.47	0.02	0	Drum-1.91
4/14/2023	14.71	14.72	0.01	0	Drum-2.30
4/20/2023	14.75	14.76	0.01	0	Drum-2.31
4/27/2023	14.38	15.01	0.63	0	Drum-2.28
5/10/2023	14.28	14.29	0.01	0	Drum-0.17
5/19/2023	14.2	14.29	0.09	0	Drum-0.18
5/23/2023	14.62	14.63	0.01	0	Drum-0.18 Replaced oil line
5/31/2023	14.65	14.66	0.01	0	Drum-0.70
6/6/2023	15.36	15.37	0.01	0	Drum-0.55
6/14/2023	14.88	14.89	0.01	0	Drum-1.22
6/23/2023	15.02	15.03	0.01	0	Drum-1.82
6/29/2023	14.95	14.96	0.01	0	

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 3/28/2023 stated 'drum 0.54 ft'. Approximately 54.4 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	7.29	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	9.35	9.74	0.39	0	
4/14/2023	9.59	9.97	0.38	0	
4/20/2023	9.70	10.99	1.29	0	
4/27/2023	9.40	9.88	0.48	0	
5/10/2023	8.65	9.01	0.36	0	
5/19/2023	8.72	9.20	0.48	0	
5/23/2023	9.49	9.74	0.25	0	
5/31/2023	9.05	9.47	0.42	0	
6/6/2023	9.65	9.89	0.24	0	
6/14/2023	9.76	9.99	0.23	0	
6/23/2023	9.85	10.61	0.76	1.38	
6/29/2023	9.65	9.74	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	6.65	6.75	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.53	7.54	0.01	0	
5/10/2023	6.72	6.73	0.01	0	
6/16/2023	6.81	6.82	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.71	7.72	0.01	0	
5/10/2023	6.98	6.99	0.01	0	
6/16/2023	7.00	7.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.13	8.14	0.01	0	
5/10/2023	7.67	7.69	0.02	0	
6/16/2023	7.70	7.71	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	11.85	12.05	0.2	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	7.95	0	0	
4/14/2023	-	8.65	0	0	
4/20/2023	-	8.85	0	0	
4/27/2023	-	8.31	0	0	
5/10/2023	-	7.96	0	0	
5/19/2023	-	7.86	0	0	
5/23/2023	-	7.81	0	0	
5/31/2023	-	8.62	0	0	
6/6/2023	-	8.84	0	0	
6/14/2023	-	8.88	0	0	
6/23/2023	9.02	9.13	0.11	0	
6/29/2023	9.00	9.13	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.03	8.04	0.01	0	
4/14/2023	8.5	8.78	0.28	0	
4/20/2023	8.35	8.82	0.47	0	
4/27/2023	7.88	7.98	0.1	0	
5/10/2023	7.81	8.02	0.21	0	
5/19/2023	7.78	7.99	0.21	0	
5/23/2023	7.77	7.89	0.12	0	
5/31/2023	8.45	8.9	0.45	0	
6/6/2023	8.68	9.31	0.63	0	
6/14/2023	8.58	8.86	0.28	0	
6/23/2023	8.85	9.51	0.66	0	
6/29/2023	8.8	9.52	0.72	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	7.73	0	0	
4/14/2023	8.45	8.46	0.01	0	
4/20/2023	-	8.18	0	0	
4/27/2023	-	7.47	0	0	
5/10/2023	-	7.75	0	0	
5/19/2023	-	7.52	0	0	
5/23/2023	-	7.46	0	0	
5/31/2023	-	8.51	0	0	
6/6/2023	-	8.76	0	0	
6/14/2023	-	8.75	0	0	
6/23/2023	-	8.92	0	0	
6/29/2023	-	8.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.18	9.32	1.14	0	
4/14/2023	8.36	10	1.64	0	
4/20/2023	8.55	9.95	1.4	0	
4/27/2023	8.16	8.87	0.71	0	
5/10/2023	7.95	9.5	1.55	0	
5/13/2023	8.64	9.59	0.95	0	
5/19/2023	8.00	9.48	1.48	0	
5/23/2023	9.02	9.46	0.44	0	
6/6/2023	10.41	10.59	0.18	0	
6/14/2023	8.55	9.33	0.78	0	
6/23/2023	10.41	10.83	0.42	0	
6/29/2023	10.50	10.93	0.43	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	8.16	0	0	
4/14/2023	8.82	8.83	0.01	0	
4/20/2023	-	8.65	0	0	
4/27/2023	-	8.21	0	0	
5/10/2023	-	8.31	0	0	
5/19/2023	-	8.22	0	0	
5/23/2023	-	8.19	0	0	
5/31/2023	-	8.76	0	0	
6/6/2023	-	8.91	0	0	
6/14/2023	-	8.83	0	0	
6/23/2023	-	9.24	0	0	
6/29/2023	-	9.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	4.95	5.12	0.17	0	
4/14/2023	5.81	5.98	0.17	0	
4/20/2023	5.75	5.78	0.03	0	
4/27/2023	4.43	4.44	0.01	0	
5/10/2023	4.75	4.76	0.01	0	
5/19/2023	-	4.52	0	0	
5/23/2023	-	4.49	0	0	
5/31/2023	-	6.1	0	0	
6/6/2023	-	6.45	0	0	
6/14/2023	-	6.49	0	0	
6/23/2023	6.43	6.45	0.02	0	
6/29/2023	6.51	6.52	0.01	0	

ATTACHMENT B

Data Usability Summary Reports

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#K4871
May 4, 2023
Sampling date: 9/10/2019

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#K4871 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), PCB (8082A) and Inorganics (6010C).

DUSR ID	Sample ID	Laboratory ID
1	VE-4-11	K4871-01
2	VE-4-11MS	K4871-02
3	VE-4-11MSD	K4871-03
4	DAY-1	K4871-04
5	VE-1-4	K4871-05
6	VE-1-2	K4871-06
7	VE-2-1	K4871-07
8	VE-3-1	K4871-08
9	FB-91119	K4871-09

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except some of the areas of the internal standards were rounded when applied to Form 8B. The unrounded values were used, so no further action is required. Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in the continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
BG042868.D	Pyrene	32.5	UJ/J	1-3, 6

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except a target analyte was detected in a blank. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
ICB01	Cu	1.87	U at RL	1, 4-7, 1DUP
ICB01	Cu	1.87	JH	8

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	Cu	114	JH	PB123068BS, 1-8, 1DUP
LLCCV01	Cu	116	JH	PB123068BS, 1-8, 1DUP

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:03 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058107.D	1		09/16/19 11:00	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141	112%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	50.8		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	296000	7.65			
540-36-3	1,4-Difluorobenzene	482000	8.57			
3114-55-4	Chlorobenzene-d5	432000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058108.D	1		09/16/19 11:22	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	0.81	J	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	0.86	J	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	0.59	J	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141	113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		58 - 135	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297000	7.65			
540-36-3	1,4-Difluorobenzene	498000	8.57			
3114-55-4	Chlorobenzene-d5	463000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	262000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058138.D	1		09/17/19 10:59	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.4		61 - 141	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		69 - 133	109%	SPK: 50
2037-26-5	Toluene-d8	53.5		65 - 126	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.65			
540-36-3	1,4-Difluorobenzene	476000	8.57			
3114-55-4	Chlorobenzene-d5	430000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	236000	13.35			

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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058139.D	1		09/17/19 11:21	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		61 - 141	99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		69 - 133	93%	SPK: 50
2037-26-5	Toluene-d8	44.7		65 - 126	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.6		58 - 135	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	325000	7.65			
540-36-3	1,4-Difluorobenzene	526000	8.57			
3114-55-4	Chlorobenzene-d5	471000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	259000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058142.D	1		09/17/19 12:27	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	0.56	J	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.3		61 - 141	95%	SPK: 50
1868-53-7	Dibromofluoromethane	44.9		69 - 133	90%	SPK: 50
2037-26-5	Toluene-d8	45.0		65 - 126	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		58 - 135	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	365000	7.65			
540-36-3	1,4-Difluorobenzene	588000	8.57			
3114-55-4	Chlorobenzene-d5	546000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	315000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058141.D	1		09/17/19 12:05	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	0.39	J	0.12	1.00	ug/L
108-90-7	Chlorobenzene	2.90		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	0.39	J	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	0.71	J	0.20	2.00	ug/L
95-47-6	o-Xylene	1.10		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	0.42	J	0.13	1.00	ug/L
103-65-1	n-propylbenzene	0.83	J	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.70		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	0.29	J	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	5.20		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	0.72	J	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.10		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		61 - 141	94%	SPK: 50
1868-53-7	Dibromofluoromethane	44.1		69 - 133	88%	SPK: 50
2037-26-5	Toluene-d8	43.1		65 - 126	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.4		58 - 135	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	343000	7.65			
540-36-3	1,4-Difluorobenzene	563000	8.57			
3114-55-4	Chlorobenzene-d5	508000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	296000	13.35			

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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N = Presumptive Evidence of a Compound
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058105.D	1		09/16/19 10:17	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.5		61 - 141	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	51.7		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		58 - 135	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.65			
540-36-3	1,4-Difluorobenzene	497000	8.57			
3114-55-4	Chlorobenzene-d5	448000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0916WBL01	SDG No.:	K4871
Lab Sample ID:	VN0916WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058104.D	1		09/16/19 09:55	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		61 - 141	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	50.4		65 - 126	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		58 - 135	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	7.65			
540-36-3	1,4-Difluorobenzene	528000	8.57			
3114-55-4	Chlorobenzene-d5	475000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0917WBL01	SDG No.:	K4871
Lab Sample ID:	VN0917WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058135.D	1		09/17/19 09:53	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	51.6		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		58 - 135	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	310000	7.65			
540-36-3	1,4-Difluorobenzene	500000	8.57			
3114-55-4	Chlorobenzene-d5	448000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	242000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0916WBS01	SDG No.:	K4871
Lab Sample ID:	VN0916WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058109.D	1		09/16/19 11:44	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	22.3		0.070	1.00	ug/L
71-43-2	Benzene	21.1		0.10	1.00	ug/L
108-88-3	Toluene	21.3		0.12	1.00	ug/L
108-90-7	Chlorobenzene	21.4		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	22.1		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	43.9		0.20	2.00	ug/L
95-47-6	o-Xylene	22.4		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
103-65-1	n-propylbenzene	22.1		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	22.0		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	21.1		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.6		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	22.0		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	22.3		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	21.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		61 - 141	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.4		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		58 - 135	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	316000	7.65			
540-36-3	1,4-Difluorobenzene	508000	8.57			
3114-55-4	Chlorobenzene-d5	477000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.35			

U = Not Detected
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0917WBS01	SDG No.:	K4871
Lab Sample ID:	VN0917WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058140.D	1		09/17/19 11:43	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	22.1		0.070	1.00	ug/L
71-43-2	Benzene	20.7		0.10	1.00	ug/L
108-88-3	Toluene	20.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.20	2.00	ug/L
95-47-6	o-Xylene	21.5		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	21.5		0.13	1.00	ug/L
103-65-1	n-propylbenzene	21.7		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.7		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	21.0		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.5		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	21.6		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	21.7		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	21.1		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		61 - 141	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	52.4		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		58 - 135	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	313000	7.65			
540-36-3	1,4-Difluorobenzene	506000	8.57			
3114-55-4	Chlorobenzene-d5	478000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	286000	13.35			

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MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058130.D	1		09/16/19 19:25	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	56.7		0.070	1.00	ug/L
71-43-2	Benzene	52.8		0.10	1.00	ug/L
108-88-3	Toluene	52.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	53.2		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	54.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.20	2.00	ug/L
95-47-6	o-Xylene	55.1		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	53.1		0.13	1.00	ug/L
103-65-1	n-propylbenzene	54.3		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	54.4		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	53.2		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	54.5		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	54.5		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	54.9		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	53.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		61 - 141	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		69 - 133	105%	SPK: 50
2037-26-5	Toluene-d8	52.2		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		58 - 135	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	319000	7.65			
540-36-3	1,4-Difluorobenzene	520000	8.57			
3114-55-4	Chlorobenzene-d5	503000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	311000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN058131.D	1		09/16/19 19:47	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	57.5		0.070	1.00	ug/L
71-43-2	Benzene	53.5		0.10	1.00	ug/L
108-88-3	Toluene	53.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	54.2		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	55.6		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.20	2.00	ug/L
95-47-6	o-Xylene	55.7		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	55.3		0.13	1.00	ug/L
103-65-1	n-propylbenzene	56.6		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.4		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	55.1		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	55.7		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	55.9		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	56.7		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	55.2		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		61 - 141	110%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		69 - 133	108%	SPK: 50
2037-26-5	Toluene-d8	53.2		65 - 126	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		58 - 135	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	7.65			
540-36-3	1,4-Difluorobenzene	533000	8.57			
3114-55-4	Chlorobenzene-d5	506000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	308000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
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N = Presumptive Evidence of a Compound
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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group1 was based on method 8270D and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration File ID BG042868.D met the requirements except for Pyrene and Terphenyl-d14 .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:05 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042882.D	1	09/14/19 08:05	09/18/19 00:29	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.9		36 - 131	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.3		39 - 131	90%	SPK: 100
1718-51-0	Terphenyl-d14	88.1		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62200	8.11			
1146-65-2	Naphthalene-d8	262000	10.91			
15067-26-2	Acenaphthene-d10	175000	14.72			
1517-22-2	Phenanthrene-d10	390000	17.46			
1719-03-5	Chrysene-d12	364000	21.75			
1520-96-3	Perylene-d12	390000	25.01			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042882.D	1	09/14/19 08:05	09/18/19 00:29	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000265.D	1	09/14/19 08:05	09/17/19 12:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	3.30	J	2.80	10.0	ug/L
86-73-7	Fluorene	4.90	J	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.5		36 - 131	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		39 - 131	102%	SPK: 100
1718-51-0	Terphenyl-d14	67.7		23 - 130	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	308000	6.79			
1146-65-2	Naphthalene-d8	1030000	8.07			
15067-26-2	Acenaphthene-d10	472000	9.83			
1517-22-2	Phenanthrene-d10	822000	11.34			
1719-03-5	Chrysene-d12	898000	14.01			
1520-96-3	Perylene-d12	933000	15.49			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000265.D	1	09/14/19 08:05	09/17/19 12:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042864.D	1	09/14/19 08:05	09/17/19 00:56	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	100		36 - 131	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.2		39 - 131	92%	SPK: 100
1718-51-0	Terphenyl-d14	87.7		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	8.12			
1146-65-2	Naphthalene-d8	463000	10.93			
15067-26-2	Acenaphthene-d10	298000	14.74			
1517-22-2	Phenanthrene-d10	614000	17.48			
1719-03-5	Chrysene-d12	579000	21.76			
1520-96-3	Perylene-d12	660000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042864.D	1	09/14/19 08:05	09/17/19 00:56	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042881.D	1	09/14/19 08:05	09/17/19 23:51	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	100		36 - 131	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		39 - 131	94%	SPK: 100
1718-51-0	Terphenyl-d14	99.0		23 - 130	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60900	8.11			
1146-65-2	Naphthalene-d8	239000	10.91			
15067-26-2	Acenaphthene-d10	171000	14.72			
1517-22-2	Phenanthrene-d10	387000	17.47			
1719-03-5	Chrysene-d12	371000	21.74			
1520-96-3	Perylene-d12	396000	25.01			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042881.D	1	09/14/19 08:05	09/17/19 23:51	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF117128.D	1	09/14/19 08:05	09/18/19 00:50	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.8		36 - 131	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		39 - 131	88%	SPK: 100
1718-51-0	Terphenyl-d14	87.5		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59300	6.82			
1146-65-2	Naphthalene-d8	240000	8.1			
15067-26-2	Acenaphthene-d10	124000	9.85			
1517-22-2	Phenanthrene-d10	203000	11.33			
1719-03-5	Chrysene-d12	148000	13.96			
1520-96-3	Perylene-d12	131000	15.41			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF117128.D	1	09/14/19 08:05	09/18/19 00:50	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000251.D	1	09/14/19 08:05	09/16/19 21:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	5.00	J	2.80	10.0	ug/L
86-73-7	Fluorene	4.50	J	2.50	10.0	ug/L
85-01-8	Phenanthrene	7.20	J	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.8		36 - 131	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.5		39 - 131	81%	SPK: 100
1718-51-0	Terphenyl-d14	68.3		23 - 130	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	339000	6.79			
1146-65-2	Naphthalene-d8	1160000	8.07			
15067-26-2	Acenaphthene-d10	589000	9.83			
1517-22-2	Phenanthrene-d10	988000	11.33			
1719-03-5	Chrysene-d12	916000	13.99			
1520-96-3	Perylene-d12	1030000	15.47			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000251.D	1	09/14/19 08:05	09/16/19 21:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000263.D	1	09/14/19 08:05	09/17/19 11:23	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	92.3		36 - 131	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		39 - 131	104%	SPK: 100
1718-51-0	Terphenyl-d14	85.3		23 - 130	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	320000	6.79			
1146-65-2	Naphthalene-d8	1120000	8.07			
15067-26-2	Acenaphthene-d10	588000	9.83			
1517-22-2	Phenanthrene-d10	1040000	11.32			
1719-03-5	Chrysene-d12	930000	13.99			
1520-96-3	Perylene-d12	865000	15.47			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000263.D	1	09/14/19 08:05	09/17/19 11:23	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: K4871 SAS No.: K4871 SDG No.: K4871

Instrument ID: BNA_G Calibration Date/Time: 09/17/2019 15:35

Lab File ID: BG042868.D Init. Calib. Date(s): 09/12/2019 09/12/2019

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:15 13:05

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.150	1.098		-4.5	
Phenol-d6	1.651	1.702		3.1	
Nitrobenzene-d5	0.384	0.424		10.4	
Naphthalene	0.987	1.054		6.8	
2-Methylnaphthalene	0.740	0.822		11.1	
2-Fluorobiphenyl	1.263	1.393		10.3	
Acenaphthylene	1.770	1.913		8.1	
Acenaphthene	1.156	1.169		1.1	20.0
Fluorene	1.424	1.572		10.4	
2,4,6-Tribromophenol	0.266	0.315		18.4	
Phenanthrene	0.956	1.053		10.1	
Anthracene	0.956	1.042		9.0	
Fluoranthene	1.240	1.217		-1.9	20.0
Pyrene	1.252	1.659		32.5	
Terphenyl-d14	0.902	1.254		39.0	
Benzo(a)anthracene	1.272	1.377		8.3	
Chrysene	1.205	1.330		10.4	
Benzo(b)fluoranthene	1.174	1.229		4.7	
Benzo(k)fluoranthene	1.109	1.195		7.8	
Benzo(a)pyrene	1.100	1.167		6.1	20.0
Indeno(1,2,3-cd)pyrene	1.492	1.478		-0.9	
Dibenzo(a,h)anthracene	1.082	1.154		6.7	
Benzo(g,h,i)perylene	1.055	1.112		5.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BL	SDG No.:	K4871
Lab Sample ID:	PB123104BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042842.D	1	09/14/19 08:05	09/16/19 09:35	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	77.5		36 - 131	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		39 - 131	75%	SPK: 100
1718-51-0	Terphenyl-d14	75.0		23 - 130	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82200	8.12			
1146-65-2	Naphthalene-d8	319000	10.93			
15067-26-2	Acenaphthene-d10	241000	14.74			
1517-22-2	Phenanthrene-d10	611000	17.48			
1719-03-5	Chrysene-d12	659000	21.75			
1520-96-3	Perylene-d12	687000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BL	SDG No.:	K4871
Lab Sample ID:	PB123104BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042842.D	1	09/14/19 08:05	09/16/19 09:35	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BS	SDG No.:	K4871
Lab Sample ID:	PB123104BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042845.D	1	09/14/19 08:05	09/16/19 12:08	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	43.3		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	43.9		2.50	10.0	ug/L
208-96-8	Acenaphthylene	44.0		2.70	10.0	ug/L
83-32-9	Acenaphthene	48.7		2.80	10.0	ug/L
86-73-7	Fluorene	45.3		2.50	10.0	ug/L
85-01-8	Phenanthrene	42.9		2.50	10.0	ug/L
120-12-7	Anthracene	43.5		2.50	10.0	ug/L
206-44-0	Fluoranthene	44.0		2.90	10.0	ug/L
129-00-0	Pyrene	43.2		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.5		2.30	10.0	ug/L
218-01-9	Chrysene	42.1		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.9		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	46.3		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41.4		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.9		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	48.1		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.8		36 - 131	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.6		39 - 131	71%	SPK: 100
1718-51-0	Terphenyl-d14	72.7		23 - 130	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71800	8.12			
1146-65-2	Naphthalene-d8	308000	10.93			
15067-26-2	Acenaphthene-d10	228000	14.74			
1517-22-2	Phenanthrene-d10	596000	17.48			
1719-03-5	Chrysene-d12	612000	21.76			
1520-96-3	Perylene-d12	620000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BS	SDG No.:	K4871
Lab Sample ID:	PB123104BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042845.D	1	09/14/19 08:05	09/16/19 12:08	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042883.D	1	09/14/19 08:05	09/18/19 01:07	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	43.5		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	45.8		2.50	10.0	ug/L
208-96-8	Acenaphthylene	46.0		2.70	10.0	ug/L
83-32-9	Acenaphthene	43.8		2.80	10.0	ug/L
86-73-7	Fluorene	47.2		2.50	10.0	ug/L
85-01-8	Phenanthrene	48.7		2.50	10.0	ug/L
120-12-7	Anthracene	49.4		2.50	10.0	ug/L
206-44-0	Fluoranthene	45.1		2.90	10.0	ug/L
129-00-0	Pyrene	49.1		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.5		2.30	10.0	ug/L
218-01-9	Chrysene	46.7		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.6		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	48.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.2		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.6		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	49.6		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	97.3		36 - 131	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.7		39 - 131	96%	SPK: 100
1718-51-0	Terphenyl-d14	101		23 - 130	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69000	8.11			
1146-65-2	Naphthalene-d8	279000	10.91			
15067-26-2	Acenaphthene-d10	195000	14.72			
1517-22-2	Phenanthrene-d10	424000	17.47			
1719-03-5	Chrysene-d12	387000	21.75			
1520-96-3	Perylene-d12	405000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042883.D	1	09/14/19 08:05	09/18/19 01:07	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042884.D	1	09/14/19 08:05	09/18/19 01:45	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	42.9		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	45.0		2.50	10.0	ug/L
208-96-8	Acenaphthylene	46.5		2.70	10.0	ug/L
83-32-9	Acenaphthene	43.3		2.80	10.0	ug/L
86-73-7	Fluorene	47.3		2.50	10.0	ug/L
85-01-8	Phenanthrene	48.9		2.50	10.0	ug/L
120-12-7	Anthracene	49.9		2.50	10.0	ug/L
206-44-0	Fluoranthene	45.3		2.90	10.0	ug/L
129-00-0	Pyrene	49.9		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.3		2.30	10.0	ug/L
218-01-9	Chrysene	47.3		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.0		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	47.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.1		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.1		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	49.3		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	96.6		36 - 131	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.0		39 - 131	96%	SPK: 100
1718-51-0	Terphenyl-d14	98.1		23 - 130	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	66600	8.11			
1146-65-2	Naphthalene-d8	270000	10.92			
15067-26-2	Acenaphthene-d10	187000	14.72			
1517-22-2	Phenanthrene-d10	400000	17.47			
1719-03-5	Chrysene-d12	362000	21.76			
1520-96-3	Perylene-d12	386000	25.02			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042884.D	1	09/14/19 08:05	09/18/19 01:45	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: PCB

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration File ID PO060793.D met the requirements except for Tetrachloro-m-xylene is failing in 1st column.

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 2:06 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060941.D	1	09/13/19 09:10	09/16/19 17:15	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.29	J	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.5		35 - 137	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.4		40 - 135	62%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060944.D	1	09/13/19 09:10	09/16/19 18:03	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		35 - 137	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		40 - 135	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060946.D	1	09/13/19 09:10	09/16/19 18:36	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.3		35 - 137	122%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.0		40 - 135	70%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060948.D	1	09/13/19 09:10	09/16/19 19:08	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.6		35 - 137	73%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.38		40 - 135	47%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060949.D	1	09/13/19 09:10	09/16/19 19:24	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.7		35 - 137	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		40 - 135	66%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123063BL	SDG No.:	K4871
Lab Sample ID:	PB123063BL	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060780.D	1	09/13/19 09:10	09/13/19 19:28	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		35 - 137	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		40 - 135	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060751.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060751.D	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060751.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.7		43 - 150	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.9		24 - 154	110%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060770.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060770.D	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060770.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		43 - 150	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		24 - 154	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060792.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060792.D	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060792.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.6		43 - 150	128%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.4		24 - 154	122%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/16/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/16/19
Client Sample ID:	PIBLK-PO060934.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060934.D	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060934.D	1		09/16/19	PO091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		43 - 150	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.9		24 - 154	75%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/16/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/16/19
Client Sample ID:	PIBLK-PO060957.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060957.D	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060957.D	1		09/16/19	PO091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		43 - 150	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		24 - 154	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123063BS	SDG No.:	K4871
Lab Sample ID:	PB123063BS	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060781.D	1	09/13/19 09:10	09/13/19 19:44	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.20		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.10		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		35 - 137	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		40 - 135	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060942.D	1	09/13/19 09:10	09/16/19 17:31	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.60		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	1.30		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.30		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.7		35 - 137	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.1		40 - 135	60%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060943.D	1	09/13/19 09:10	09/16/19 17:47	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.60		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	1.30		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.30		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		35 - 137	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.8		40 - 135	59%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:07 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7440-50-8	Copper	9.00	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7439-92-1	Lead	11.6		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7440-50-8	Copper	7.79	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7439-92-1	Lead	3.80	J	1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7440-50-8	Copper	5.01	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7439-92-1	Lead	14.4		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7440-50-8	Copper	9.93	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7439-92-1	Lead	22.2		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7440-50-8	Copper	3.74	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7439-92-1	Lead	8.83		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	3.31	J	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7440-47-3	Chromium	2.31	J	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7440-50-8	Copper	21.7		1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7439-92-1	Lead	9.18		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7440-50-8	Copper	10.0	U	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7439-92-1	Lead	6.00	U	1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.3	20.0	92	80 - 120	P	09/13/2019	11:40	LB105130
	Chromium	10.9	10.0	109	80 - 120	P	09/13/2019	11:40	LB105130
	Copper	22.8	20.0	114	80 - 120	P	09/13/2019	11:40	LB105130
	Lead	12.1	12.0	101	80 - 120	P	09/13/2019	11:40	LB105130

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Arsenic	19.4	20.0	97	80 - 120	P	09/13/2019	12:12	LB105130
	Chromium	11.0	10.0	110	80 - 120	P	09/13/2019	12:12	LB105130
	Copper	23.3	20.0	116	80 - 120	P	09/13/2019	12:12	LB105130
	Lead	12.8	12.0	106	80 - 120	P	09/13/2019	12:12	LB105130

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	09/13/2019	11:45	LB105130
	Chromium	10.0	+/-10.0	U	10.0	P	09/13/2019	11:45	LB105130
	Copper	1.87	+/-20.0	J	20.0	P	09/13/2019	11:45	LB105130
	Lead	12.0	+/-12.0	U	12.0	P	09/13/2019	11:45	LB105130

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#L2904
May 5, 2023
Sampling date: 6/3, 4/2020

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#L2904 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(1/2020) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM), PCB (8082A), Inorganics (6010D) and Perfluorinated Hydrocarbons (537 modified).

DUSR ID	Sample ID	Laboratory ID	Laboratory #2 ID
1	VE-4-11	L2904-01	K2005011-001
2	VE-4-11MS	L2904-02	
3	VE-4-11MSD	L2904-03	
4	DAY-1	L2904-04	
5	VE-1-4	L2904-05	K2005011-002
6	VE-1-2	L2904-06	
7	VE-3-1	L2904-07	
8	VE-2-1	L2904-08	K2005011-003
9	DUP	L2904-09	K2005011-004
10	EB6420	L2904-10	K2005011-005
11	FB6420	L2904-11	K2005011-006

The analysis of the Perfluorinated Hydrocarbons was subcontracted to ALS Environmental (Laboratory #2)

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration

-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#4 was outside QC limit. This sample was analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except some of the areas of the internal standards were rounded when applied to Form 8B. The unrounded values were used, so no further action is required. Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met except the area of 1,4-Dichlorobenzene-d_4 in DUSR ID#4 and Acenaphthene-d_{10} and Perylene-d_{12} in DUSR ID#5 were outside QC limits. There were no associated target analytes monitored in these samples, so no further action is required.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of a surrogate was outside QC limits off the primary column and should be qualified as estimated. Associated target analytes in this sample should be qualified.

Surrogate	Column	%Rec	Qualifier	Associated Sample
DCBP	1	29	UJ	7

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks, Serial Dilution and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except a target analyte was detected in a blank. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
CCB02	Pb	2.56	JH	1, 1DUP

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	As	112	JH	PB129372BS, 2, 3
LLICV01	Cr	88	UJ/J	PB129372, 1-10
LLCCV01	Cr	81	UJ/J	PB129372

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the summary form for the continuing calibration, KQ2008411-04, was not included in the package. The raw data was included, and the data was within QC limits, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
13C2PFHxA	UJ/J	1, 8, 9, 1MS/MSD
d5-NEtFOSAA	UJ/J	1, 5, 1MS/MSD
13C2-6:2FTS	UJ/J	1, 5, 8, 9, 1MS/MSD
13C2-8:2FTS	UJ/J	1, 5, 8, 9, 1MS/MSD
13C4-PFHpA	UJ/J	1, 8, 9, 1MS/MSD
13C4-PFOA	UJ/J	1, 8, 9, 1MS/MSD

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except a target analyte was outside QC limits in the matrix spike and matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec 1MS	%Rec 1MSD	%RPD	Qualifier	Associated Sample
PFPeA	144	-	42	UJ	1

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %Rec of a target analyte was outside QC limits in a continuing

calibration and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%Rec	Qualifier	Associated Sample
KQ2008290-01	NMeFOSAA	131	UJ/J	KQ2008184, 1, 2, 1MS/MSD

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#M3561
May 5, 2023
Sampling date: 8/24-26/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#M3561 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using the USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM), PCB (8082A) and Inorganics (6010C).

DUSR ID	Sample ID	Laboratory ID
1	OUII-D	M3561-01
2	OUII-A	M3561-02
3	OUII-F	M3561-03
4	OUII-C	M3561-04
5	OUII-E	M3561-05
6	VE4-11	M3561-06
7	FA4-16	M3561-07
8	FA4-11	M3561-08
9	PGW-2	M3561-09
10	VE1-4	M3561-10
11	DUPLICATE-082521	M3561-11
12	VE1-2	M3561-12
13	VE2-1	M3561-13
14	VE3-1	M3561-14
15	VE4-7	M3561-15
16	VE4-9	M3561-16
17	DAY-1	M3561-17
18	FA4-9	M3561-18
19	EB-082621	M3561-19
20	FB-082621	M3561-20
21	TRIP-BLANK-082621	M3561-21
23	VE4-11MS	M3561-23
24	VE4-11MSD	M3561-24

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of 2-Fluorophenol was outside QC limits high in PB138774BS. There were no target analytes associated with this surrogate, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Compound Quantitation and Continuing Calibration.

Sample: DUSR ID#1 was diluted due to sample matrix.
Sample: DUSR ID#2 was diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met except the %RPD was outside QC limits between the columns for a target analyte in several samples and should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1, 3, 8, 15, 18

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except continuing calibration was not performed on Aroclor 1254. This target analyte should be qualified as estimated in all samples, blanks and spikes in which it was detected.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	Cu	114	JH	PB138775BS, 4-6, 10-18, 23, 24, 6DUP
LLCCV01	Cu	113	JH	PB138775BS, 4-6, 10-18, 23, 24, 6DUP

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:30 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023991.D	1		08/27/21 14:45	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		78 - 117	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	135000	5.562			
540-36-3	1,4-Difluorobenzene	230000	6.769			
3114-55-4	Chlorobenzene-d5	214000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	85700	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024010.D	1		08/30/21 13:31	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		83 - 123	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	183000	5.562			
540-36-3	1,4-Difluorobenzene	309000	6.769			
3114-55-4	Chlorobenzene-d5	289000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	122000	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024000.D	1		08/27/21 18:18	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.0		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	5.562			
540-36-3	1,4-Difluorobenzene	282000	6.769			
3114-55-4	Chlorobenzene-d5	266000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023993.D	1		08/27/21 15:33	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		78 - 117	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	136000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	225000	10.061			
3855-82-1	1,4-Dichlorobenzene-d4	96700	12.024			

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023994.D	1		08/27/21 15:56	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	46.5		92 - 112	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	5.562			
540-36-3	1,4-Difluorobenzene	255000	6.769			
3114-55-4	Chlorobenzene-d5	239000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	103000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023995.D	1		08/27/21 16:20	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		83 - 123	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	139000	5.562			
540-36-3	1,4-Difluorobenzene	238000	6.769			
3114-55-4	Chlorobenzene-d5	223000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	99800	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023996.D	1		08/27/21 16:43	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.562			
540-36-3	1,4-Difluorobenzene	237000	6.769			
3114-55-4	Chlorobenzene-d5	221000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	92500	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023997.D	1		08/27/21 17:07	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.25	J	0.18	1.00	ug/L
108-88-3	Toluene	0.70	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	4.20		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	0.42	J	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.80	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.60		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.52	J	0.23	1.00	ug/L
103-65-1	n-propylbenzene	0.97	J	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.50		0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	7.60		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.86	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.20		0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		83 - 123	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	220000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	98500	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023998.D	1		08/27/21 17:31	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	0.45	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	1.50	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.8		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	268000	6.769			
3114-55-4	Chlorobenzene-d5	254000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023999.D	1		08/27/21 17:54	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.25	J	0.18	1.00	ug/L
108-88-3	Toluene	0.44	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.20		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.47	J	0.32	2.00	ug/L
95-47-6	o-Xylene	0.64	J	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.70		0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.00		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.27	J	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.7		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	269000	6.769			
3114-55-4	Chlorobenzene-d5	255000	10.061			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024016.D	1		08/30/21 15:52	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.67	J	0.18	1.00	ug/L
108-88-3	Toluene	0.42	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	0.54	J	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.41	J	0.23	1.00	ug/L
103-65-1	n-propylbenzene	0.74	J	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.42	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	0.75	J	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	5.562			
540-36-3	1,4-Difluorobenzene	261000	6.769			
3114-55-4	Chlorobenzene-d5	244000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	112000	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024017.D	1		08/30/21 16:16	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.53	J	0.18	1.00	ug/L
108-88-3	Toluene	0.46	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.43	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.90		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.53	J	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.40		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.29	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	5.562			
540-36-3	1,4-Difluorobenzene	276000	6.769			
3114-55-4	Chlorobenzene-d5	256000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	118000	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023989.D	1		08/27/21 13:58	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	47.9		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		83 - 123	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	135000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	221000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	94400	12.024			

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023990.D	1		08/27/21 14:22	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.3		92 - 112	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	265000	6.769			
3114-55-4	Chlorobenzene-d5	252000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	106000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	TRIP-BLANK-082621	SDG No.:	M3561
Lab Sample ID:	M3561-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023988.D	1		08/27/21 13:35	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	46.1		92 - 112	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		83 - 123	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	5.562			
540-36-3	1,4-Difluorobenzene	240000	6.769			
3114-55-4	Chlorobenzene-d5	222000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	84200	12.024			

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:34 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125305.D	1	08/30/21 10:10	09/01/21 14:28	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.5		49 - 133	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		52 - 132	73%	SPK: 100
1718-51-0	Terphenyl-d14	69.3		45 - 142	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.904			
1146-65-2	Naphthalene-d8	664000	8.186			
15067-26-2	Acenaphthene-d10	367000	9.945			
1517-22-2	Phenanthrene-d10	707000	11.433			
1719-03-5	Chrysene-d12	589000	14.074			
1520-96-3	Perylene-d12	470000	15.574			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125305.D	1	08/30/21 10:10	09/01/21 14:28	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125287.D	1	08/30/21 10:10	08/31/21 14:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	79.8		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		52 - 132	69%	SPK: 100
1718-51-0	Terphenyl-d14	78.8		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	177000	6.91			
1146-65-2	Naphthalene-d8	686000	8.198			
15067-26-2	Acenaphthene-d10	386000	9.951			
1517-22-2	Phenanthrene-d10	748000	11.439			
1719-03-5	Chrysene-d12	554000	14.08			
1520-96-3	Perylene-d12	446000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125287.D	1	08/30/21 10:10	08/31/21 14:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125270.D	1	08/30/21 10:10	08/30/21 19:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.7		49 - 133	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.2		52 - 132	73%	SPK: 100
1718-51-0	Terphenyl-d14	72.1		45 - 142	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	180000	6.91			
1146-65-2	Naphthalene-d8	710000	8.198			
15067-26-2	Acenaphthene-d10	378000	9.951			
1517-22-2	Phenanthrene-d10	604000	11.439			
1719-03-5	Chrysene-d12	412000	14.086			
1520-96-3	Perylene-d12	411000	15.592			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125270.D	1	08/30/21 10:10	08/30/21 19:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125267.D	1	08/30/21 10:10	08/30/21 17:43	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.3		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.6		52 - 132	72%	SPK: 100
1718-51-0	Terphenyl-d14	77.6		45 - 142	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	157000	6.916			
1146-65-2	Naphthalene-d8	620000	8.198			
15067-26-2	Acenaphthene-d10	339000	9.951			
1517-22-2	Phenanthrene-d10	620000	11.439			
1719-03-5	Chrysene-d12	386000	14.08			
1520-96-3	Perylene-d12	435000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125267.D	1	08/30/21 10:10	08/30/21 17:43	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125268.D	1	08/30/21 10:10	08/30/21 18:15	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	82.2		49 - 133	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
1718-51-0	Terphenyl-d14	83.1		45 - 142	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.916			
1146-65-2	Naphthalene-d8	637000	8.198			
15067-26-2	Acenaphthene-d10	341000	9.951			
1517-22-2	Phenanthrene-d10	647000	11.439			
1719-03-5	Chrysene-d12	421000	14.08			
1520-96-3	Perylene-d12	458000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125268.D	1	08/30/21 10:10	08/30/21 18:15	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125266.D	1	08/30/21 10:10	08/30/21 17:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.8		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.6		52 - 132	71%	SPK: 100
1718-51-0	Terphenyl-d14	76.9		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000	6.91			
1146-65-2	Naphthalene-d8	661000	8.198			
15067-26-2	Acenaphthene-d10	352000	9.951			
1517-22-2	Phenanthrene-d10	631000	11.445			
1719-03-5	Chrysene-d12	415000	14.086			
1520-96-3	Perylene-d12	429000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125266.D	1	08/30/21 10:10	08/30/21 17:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125269.D	1	08/30/21 10:10	08/30/21 18:48	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.5		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		52 - 132	69%	SPK: 100
1718-51-0	Terphenyl-d14	80.6		45 - 142	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	174000	6.91			
1146-65-2	Naphthalene-d8	683000	8.198			
15067-26-2	Acenaphthene-d10	375000	9.951			
1517-22-2	Phenanthrene-d10	702000	11.439			
1719-03-5	Chrysene-d12	423000	14.08			
1520-96-3	Perylene-d12	451000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125269.D	1	08/30/21 10:10	08/30/21 18:48	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125277.D	1	08/30/21 10:10	08/30/21 23:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	32.4		2.20	5.00	ug/L
208-96-8	Acenaphthylene	4.40	J	2.10	5.00	ug/L
83-32-9	Acenaphthene	18.0		2.30	5.00	ug/L
86-73-7	Fluorene	31.7		2.20	5.00	ug/L
85-01-8	Phenanthrene	59.9		2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	6.30		2.60	5.00	ug/L
129-00-0	Pyrene	9.30		1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	90.9		49 - 133	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		52 - 132	84%	SPK: 100
1718-51-0	Terphenyl-d14	61.1		45 - 142	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.916			
1146-65-2	Naphthalene-d8	573000	8.204			
15067-26-2	Acenaphthene-d10	242000	9.98			
1517-22-2	Phenanthrene-d10	379000	11.48			
1719-03-5	Chrysene-d12	376000	14.104			
1520-96-3	Perylene-d12	303000	15.609			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125277.D	1	08/30/21 10:10	08/30/21 23:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125274.D	1	08/30/21 10:10	08/30/21 21:32	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	2.90	J	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.8		49 - 133	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.4		52 - 132	65%	SPK: 100
1718-51-0	Terphenyl-d14	61.9		45 - 142	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	161000	6.916			
1146-65-2	Naphthalene-d8	625000	8.198			
15067-26-2	Acenaphthene-d10	329000	9.957			
1517-22-2	Phenanthrene-d10	563000	11.451			
1719-03-5	Chrysene-d12	406000	14.086			
1520-96-3	Perylene-d12	418000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125274.D	1	08/30/21 10:10	08/30/21 21:32	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125275.D	1	08/30/21 10:10	08/30/21 22:04	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	2.20	J	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	77.9		49 - 133	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
1718-51-0	Terphenyl-d14	54.7		45 - 142	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	177000	6.916			
1146-65-2	Naphthalene-d8	631000	8.198			
15067-26-2	Acenaphthene-d10	305000	9.963			
1517-22-2	Phenanthrene-d10	442000	11.451			
1719-03-5	Chrysene-d12	421000	14.086			
1520-96-3	Perylene-d12	444000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125275.D	1	08/30/21 10:10	08/30/21 22:04	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125276.D	1	08/30/21 10:10	08/30/21 22:37	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	3.50	J	2.30	5.00	ug/L
86-73-7	Fluorene	6.90		2.20	5.00	ug/L
85-01-8	Phenanthrene	4.80	J	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	78.7		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.8		52 - 132	80%	SPK: 100
1718-51-0	Terphenyl-d14	52.7		45 - 142	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	169000	6.916			
1146-65-2	Naphthalene-d8	635000	8.198			
15067-26-2	Acenaphthene-d10	302000	9.957			
1517-22-2	Phenanthrene-d10	478000	11.451			
1719-03-5	Chrysene-d12	435000	14.104			
1520-96-3	Perylene-d12	388000	15.604			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125276.D	1	08/30/21 10:10	08/30/21 22:37	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125273.D	1	08/30/21 10:10	08/30/21 20:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	3.60	J	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.3		49 - 133	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.0		52 - 132	72%	SPK: 100
1718-51-0	Terphenyl-d14	55.0		45 - 142	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.916			
1146-65-2	Naphthalene-d8	640000	8.198			
15067-26-2	Acenaphthene-d10	313000	9.957			
1517-22-2	Phenanthrene-d10	505000	11.451			
1719-03-5	Chrysene-d12	424000	14.092			
1520-96-3	Perylene-d12	421000	15.592			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125273.D	1	08/30/21 10:10	08/30/21 20:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125306.D	1	08/30/21 10:10	09/01/21 14:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.5		49 - 133	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.6		52 - 132	67%	SPK: 100
1718-51-0	Terphenyl-d14	61.6		45 - 142	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.904			
1146-65-2	Naphthalene-d8	641000	8.192			
15067-26-2	Acenaphthene-d10	355000	9.945			
1517-22-2	Phenanthrene-d10	684000	11.433			
1719-03-5	Chrysene-d12	592000	14.08			
1520-96-3	Perylene-d12	489000	15.574			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF125306.D	1	08/30/21 10:10	09/01/21 14:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:32 am, Sep 09, 2021

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Surrogate Summary

SW-846

SDG No.: M3561

Client: Day Engineering, P.C.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
M3561-23MS	VE4-11MS	Nitrobenzene-d5	0.4	0.37	92		11	175
		2-Fluorobiphenyl	0.4	0.27	68		10	175
		2,4,6-Tribromophenol	0.4	0.34	84		24	148
		Terphenyl-d14	0.4	0.38	94		54	171
M3561-24MSD	VE4-11MSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.30	74		30	150
		2-Fluorophenol	0.4	0.17	41		10	92
		Phenol-d6	0.4	0.11	27		10	100
		Nitrobenzene-d5	0.4	0.37	92		11	175
		2-Fluorobiphenyl	0.4	0.27	68		10	175
		2,4,6-Tribromophenol	0.4	0.34	85		24	148
		Terphenyl-d14	0.4	0.38	94		54	171
PB138774BL	PB138774BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		2-Fluorophenol	0.4	0.33	82		10	92
		Phenol-d6	0.4	0.31	76		10	100
		Nitrobenzene-d5	0.4	0.33	83		11	175
		2-Fluorobiphenyl	0.4	0.35	86		10	175
		2,4,6-Tribromophenol	0.4	0.28	69		24	148
		Terphenyl-d14	0.4	0.38	96		54	171
PB138774BS	PB138774BS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		2-Fluorophenol	0.4	0.37	94	*	10	92
		Phenol-d6	0.4	0.38	94		10	100
		Nitrobenzene-d5	0.4	0.36	91		11	175
		2-Fluorobiphenyl	0.4	0.38	94		10	175
		2,4,6-Tribromophenol	0.4	0.39	96		24	148
		Terphenyl-d14	0.4	0.37	91		54	171

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016229.D	1	08/27/21 11:50	09/05/21 15:49	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150	72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		11 - 175	92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		10 - 175	66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.30		54 - 171	74%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	14100	7.873			
1146-65-2	Naphthalene-d8	72600	10.66			
15067-26-2	Acenaphthene-d10	57200	14.497			
1517-22-2	Phenanthrene-d10	101000	17.249			
1719-03-5	Chrysene-d12	105000	21.45			
1520-96-3	Perylene-d12	77900	23.854			

U = Not Detected
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016216.D	1	08/27/21 11:50	09/05/21 06:09	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150	94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		11 - 175	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		10 - 175	68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		54 - 171	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15600	7.873			
1146-65-2	Naphthalene-d8	84100	10.66			
15067-26-2	Acenaphthene-d10	67900	14.497			
1517-22-2	Phenanthrene-d10	109000	17.249			
1719-03-5	Chrysene-d12	119000	21.44			
1520-96-3	Perylene-d12	120000	23.827			

U = Not Detected
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016219.D	1	08/27/21 11:50	09/05/21 07:58	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150	86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150	87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		11 - 175	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		10 - 175	66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 171	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15700	7.873			
1146-65-2	Naphthalene-d8	83900	10.66			
15067-26-2	Acenaphthene-d10	65600	14.497			
1517-22-2	Phenanthrene-d10	105000	17.249			
1719-03-5	Chrysene-d12	111000	21.44			
1520-96-3	Perylene-d12	112000	23.837			

U = Not Detected
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016220.D	1	08/27/21 11:50	09/05/21 08:34	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		11 - 175	76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		10 - 175	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 171	92%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15800	7.873			
1146-65-2	Naphthalene-d8	84500	10.66			
15067-26-2	Acenaphthene-d10	52900	14.497			
1517-22-2	Phenanthrene-d10	104000	17.248			
1719-03-5	Chrysene-d12	105000	21.439			
1520-96-3	Perylene-d12	110000	23.833			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016202.D	1	08/27/21 11:50	09/04/21 20:30	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150	94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		11 - 175	80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		10 - 175	82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		54 - 171	118%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	13200	7.873			
1146-65-2	Naphthalene-d8	70400	10.66			
15067-26-2	Acenaphthene-d10	41200	14.497			
1517-22-2	Phenanthrene-d10	83200	17.236			
1719-03-5	Chrysene-d12	86700	21.429			
1520-96-3	Perylene-d12	88100	23.82			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-20	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN016203.D	1	08/27/21 11:50	09/04/21 21:06	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150	80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		11 - 175	82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		10 - 175	86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		54 - 171	109%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	13100	7.873			
1146-65-2	Naphthalene-d8	69400	10.66			
15067-26-2	Acenaphthene-d10	39500	14.497			
1517-22-2	Phenanthrene-d10	77900	17.236			
1719-03-5	Chrysene-d12	79100	21.429			
1520-96-3	Perylene-d12	78700	23.82			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: PCB

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

Samples OUII-D was initially diluted due to OILY matrix.

Sample OUII-A was diluted due to high concentration of Aroclor-1254.

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:36 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-D	SDG No.:	M3561
Lab Sample ID:	M3561-01	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	700 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039055.D	5	08/30/21 08:49	08/30/21 21:43	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	3.60	U	0.91	3.60	ug/L
11104-28-2	Aroclor-1221	3.60	U	0.99	3.60	ug/L
11141-16-5	Aroclor-1232	3.60	U	1.20	3.60	ug/L
53469-21-9	Aroclor-1242	3.60	U	0.84	3.60	ug/L
12672-29-6	Aroclor-1248	3.60	U	0.87	3.60	ug/L
11097-69-1	Aroclor-1254	8.30	P	0.85	3.60	ug/L
37324-23-5	Aroclor-1262	3.60	U	0.84	3.60	ug/L
11100-14-4	Aroclor-1268	3.60	U	1.20	3.60	ug/L
11096-82-5	Aroclor-1260	3.60	U	0.76	3.60	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		26 - 175	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.1		10 - 146	60%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-A	SDG No.:	M3561
Lab Sample ID:	M3561-02	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039056.D	1	08/30/21 08:49	08/30/21 22:00	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	13.3	E	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.1		26 - 175	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.4		10 - 146	57%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-ADL	SDG No.:	M3561
Lab Sample ID:	M3561-02DL	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039063.D	2	08/30/21 08:49	08/31/21 10:11	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	1.00	UD	0.25	1.00	ug/L
11104-28-2	Aroclor-1221	1.00	UD	0.28	1.00	ug/L
11141-16-5	Aroclor-1232	1.00	UD	0.33	1.00	ug/L
53469-21-9	Aroclor-1242	1.00	UD	0.23	1.00	ug/L
12672-29-6	Aroclor-1248	1.00	UD	0.24	1.00	ug/L
11097-69-1	Aroclor-1254	14.7	D	0.24	1.00	ug/L
37324-23-5	Aroclor-1262	1.00	UD	0.24	1.00	ug/L
11100-14-4	Aroclor-1268	1.00	UD	0.33	1.00	ug/L
11096-82-5	Aroclor-1260	1.00	UD	0.21	1.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.5		26 - 175	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.9		10 - 146	59%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-F	SDG No.:	M3561
Lab Sample ID:	M3561-03	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039057.D	1	08/30/21 08:49	08/30/21 22:17	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	2.00	P	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.0		26 - 175	75%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.5		10 - 146	58%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039035.D	1	08/30/21 08:49	08/30/21 15:30	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.0		26 - 175	120%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.2		10 - 146	121%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039036.D	1	08/30/21 08:49	08/30/21 15:47	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.0		26 - 175	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		10 - 146	118%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039037.D	1	08/30/21 08:49	08/30/21 16:04	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		26 - 175	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		10 - 146	89%	SPK: 20

Comments:

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-16	SDG No.:	M3561
Lab Sample ID:	M3561-07	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039038.D	1	08/30/21 08:49	08/30/21 16:21	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	10.0		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.5		26 - 175	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		10 - 146	99%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-11	SDG No.:	M3561
Lab Sample ID:	M3561-08	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039039.D	1	08/30/21 08:49	08/30/21 16:38	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.89	P	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.3		26 - 175	52%	SPK: 20
2051-24-3	Decachlorobiphenyl	7.73		10 - 146	39%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	PGW-2	SDG No.:	M3561
Lab Sample ID:	M3561-09	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	310 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039040.D	1	08/30/21 08:49	08/30/21 16:55	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	1.60	U	0.41	1.60	ug/L
11104-28-2	Aroclor-1221	1.60	U	0.45	1.60	ug/L
11141-16-5	Aroclor-1232	1.60	U	0.54	1.60	ug/L
53469-21-9	Aroclor-1242	1.60	U	0.38	1.60	ug/L
12672-29-6	Aroclor-1248	1.60	U	0.39	1.60	ug/L
11097-69-1	Aroclor-1254	2.10		0.38	1.60	ug/L
37324-23-5	Aroclor-1262	1.60	U	0.38	1.60	ug/L
11100-14-4	Aroclor-1268	1.60	U	0.53	1.60	ug/L
11096-82-5	Aroclor-1260	1.60	U	0.34	1.60	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		26 - 175	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		10 - 146	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039041.D	1	08/30/21 08:49	08/30/21 17:12	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		26 - 175	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		10 - 146	80%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039042.D	1	08/30/21 08:49	08/30/21 17:29	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		26 - 175	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		10 - 146	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039043.D	1	08/30/21 08:49	08/30/21 17:46	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		26 - 175	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		10 - 146	66%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039044.D	1	08/30/21 08:49	08/30/21 18:03	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		26 - 175	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.1		10 - 146	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039045.D	1	08/30/21 08:49	08/30/21 18:20	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.5		26 - 175	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.6		10 - 146	58%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039046.D	1	08/30/21 08:49	08/30/21 18:37	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.35	JP	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.4		26 - 175	72%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		10 - 146	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039047.D	1	08/30/21 08:49	08/30/21 18:54	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		26 - 175	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		10 - 146	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039048.D	1	08/30/21 08:49	08/30/21 19:11	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		26 - 175	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		10 - 146	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039049.D	1	08/30/21 08:49	08/30/21 19:28	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.44	JP	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.2		26 - 175	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		10 - 146	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039050.D	1	08/30/21 08:49	08/30/21 19:45	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		26 - 175	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		10 - 146	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
FA4-11

Contract: DAYE02
Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561
Lab Sample ID: M3561-08 Date(s) Analyzed: 08/30/2021 08/30/2021
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP039039.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.104	7.054	7.154	0.52		
	2	7.331	7.281	7.381	0.96		
	3	7.726	7.676	7.776	1.04		
COLUMN 1	4	8.012	7.962	8.062	0.91		
	5	8.441	8.391	8.491	1.00	0.89	
	1	5.971	5.921	6.021	0.68		
	2	6.131	6.081	6.181	0.18		
	3	6.547	6.497	6.597	0.33		
	4	6.788	6.738	6.838	0.35		
COLUMN 2	5	7.214	7.164	7.264	0.67	0.44	67.3

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
VE4-7

Contract: DAYE02
Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561
Lab Sample ID: M3561-15 Date(s) Analyzed: 08/30/2021 08/30/2021
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP039046.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.101	7.051	7.151	0.35		
	2	7.321	7.271	7.371	0.47		
	3	7.717	7.667	7.767	0.30		
COLUMN 1	4	8.012	7.962	8.062	0.31		
	5	8.44	8.39	8.49	0.29	0.35	
	1	5.969	5.919	6.019	0.39		
	2	6.131	6.081	6.181	0.22		
	3	6.546	6.496	6.596	0.15		
	4	6.787	6.737	6.837	0.30		
COLUMN 2	5	7.215	7.165	7.265	0.22	0.26	29.49

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
FA4-9

Contract: DAYE02
Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561
Lab Sample ID: M3561-18 Date(s) Analyzed: 08/30/2021 08/30/2021
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP039049.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.101	7.051	7.151	0.39		
	2	7.329	7.279	7.379	0.40		
	3	7.713	7.663	7.763	0.34		
COLUMN 1	4	8.011	7.961	8.061	0.69		
	5	8.441	8.391	8.491	0.36	0.44	
	1	5.969	5.919	6.019	0.39		
	2	6.129	6.079	6.179	0.20		
	3	6.546	6.496	6.596	0.27		
	4	6.786	6.736	6.836	0.43		
COLUMN 2	5	7.214	7.164	7.264	0.23	0.30	35.94

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OUII-D

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-01 Date(s) Analyzed: 08/30/2021 08/30/2021

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP039055.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.104	7.054	7.154	6.34		
	2	7.331	7.281	7.381	8.84		
	3	7.725	7.675	7.775	11.4		
COLUMN 1	4	8.01	7.96	8.06	7.57		
	5	8.44	8.39	8.49	7.54	8.30	
	1	5.972	5.922	6.022	10.8		
	2	6.129	6.079	6.179	3.30		
	3	6.547	6.497	6.597	3.13		
	4	6.788	6.738	6.838	3.87		
COLUMN 2	5	7.214	7.164	7.264	6.23	5.50	40.58

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OUII-F

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-03 Date(s) Analyzed: 08/30/2021 08/30/2021

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP039057.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.106	7.056	7.156	1.51		
	2	7.334	7.284	7.384	2.00		
	3	7.723	7.673	7.773	2.33		
COLUMN 1	4	8.012	7.962	8.062	1.80		
	5	8.441	8.391	8.491	2.41	2.00	
	1	5.973	5.923	6.023	2.38		
	2	6.131	6.081	6.181	0.96		
	3	6.549	6.499	6.599	0.98		
	4	6.789	6.739	6.839	1.09		
COLUMN 2	5	7.216	7.166	7.266	2.07	1.50	28.57

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:37 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7440-50-8	Copper	2.40	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7440-47-3	Chromium	4.55	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7440-50-8	Copper	7.31	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7440-47-3	Chromium	0.92	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7440-50-8	Copper	8.21	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7439-92-1	Lead	2.39	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7440-47-3	Chromium	1.42	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7440-50-8	Copper	22.3		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7439-92-1	Lead	3.55	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7440-47-3	Chromium	1.60	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7440-50-8	Copper	27.1		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7439-92-1	Lead	4.10	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7440-47-3	Chromium	2.32	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7440-50-8	Copper	20.7		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7439-92-1	Lead	6.66		1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7440-47-3	Chromium	1.25	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7440-50-8	Copper	1.68	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	11.0		1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7440-47-3	Chromium	6.51		1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7440-50-8	Copper	7.86	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7439-92-1	Lead	6.33		1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010

Color Before:	L.Yellow	Clarity Before:	Clear	Texture:	
Color After:	L.Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7440-47-3	Chromium	1.93	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7440-50-8	Copper	19.1		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7440-47-3	Chromium	1.39	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7440-50-8	Copper	3.78	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.6		1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7440-50-8	Copper	1.98	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7439-92-1	Lead	2.15	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	L.Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	9.04	J	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7440-47-3	Chromium	3.49	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7440-50-8	Copper	1.84	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7439-92-1	Lead	1.83	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7440-50-8	Copper	10.0	U	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** M3561

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** M3561 **SAS No.:** M3561

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.9	20.0	95	80 - 120	P	08/30/2021	14:40	LB116077
	Chromium	11.0	10.0	110	80 - 120	P	08/30/2021	14:40	LB116077
	Copper	22.8	20.0	114	80 - 120	P	08/30/2021	14:40	LB116077
	Lead	12.8	12.0	107	80 - 120	P	08/30/2021	14:40	LB116077

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** M3561

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** M3561 **SAS No.:** M3561

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Arsenic	18.2	20.0	91	80 - 120	P	08/30/2021	15:14	LB116077
	Chromium	10.6	10.0	106	80 - 120	P	08/30/2021	15:14	LB116077
	Copper	22.6	20.0	113	80 - 120	P	08/30/2021	15:14	LB116077
	Lead	14.1	12.0	117	80 - 120	P	08/30/2021	15:14	LB116077

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32707
May 11, 2023
Sampling date: 8/10/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32707 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	FA4-9	AD32707-001
2	PGW-2	AD32707-002
3	OU11-A	AD32707-003
4	OU11-B	AD32707-004
5	OU11-D	AD32707-005
6	OU11-C	AD32707-006
7	OU11-E	AD32707-007
8	OU11-F	AD32707-008
9	VE4-7	AD32707-009
10	VE-9	AD32707-010
11	FA4-16	AD32707-011
12	DAY-1	AD32707-012

Results were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD

- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD, Initial Calibration and Continuing Calibration.

Samples: DUSR ID#1, #3, #4, #10, #11 and #11MS/MSD were diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met except the extraction log was illegible in the original package. Updated pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.
Some surrogates were outside laboratory QC limits but within NFG QC limits, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except some target analytes were outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec #11MS	%Rec #11MSD	%RPD	Qualifier	Associated Sample
Aroclor 1016	253	158	46	UJ	11
Aroclor 1260	816	353	79	UJ	11

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD was acquired for this analysis.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
No serial dilution was performed for these samples.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering **HC Project:** 2081214
Project: Roaring Brook MNR-Harmon Long

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
FA4-9	AD32707-001	Aqueous	PCB (8082A)
PGW-2	AD32707-002	Aqueous	PCB (8082A)
OU11-A	AD32707-003	Aqueous	PCB (8082A)
OU11-B	AD32707-004	Aqueous	PCB (8082A)
OU11-D	AD32707-005	Aqueous	PCB (8082A)
OU11-C	AD32707-006	Aqueous	PCB (8082A)
OU11-E	AD32707-007	Aqueous	PCB (8082A)
OU11-F	AD32707-008	Aqueous	PCB (8082A)
VE4-7	AD32707-009	Aqueous	PCB (8082A)
VE-9	AD32707-010	Aqueous	PCB (8082A)
FA4-16	AD32707-011	Aqueous	PCB (8082A)
DAY-1	AD32707-012	Aqueous	VOA (8260D), PAH (8270E), PCB (8082A), Metals (6020B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and/or Matrix Spike Duplicate for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 102702 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32707-002, 008, 010, AD32602-002 had a surrogate recovery outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

9/29/22
Date

Reporting Limit Definitions

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 2M172457.D
Analysis Date: 08/17/22 22:07
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	**Benzene**	**0.50**	**0.82**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 680363

Total Target Concentration 0.82

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	Benzene	0.50	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U				

Worksheet #: 680363

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 10M92344.D
Analysis Date: 08/17/22 17:18
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**10**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**17**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**29**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**3.5**
207-08-9	Benzo[k]fluoranthene	2.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB102702
Client Id:
Data File: 10M92345.D
Analysis Date: 08/17/22 17:41
Date Rec/Extracted: NA-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 680366

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: WMB102719

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127949.D	AD32707-011(20X)(MS)	9/8/2022 8:25:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	2529.64	0	1000	253 *	60	130
Aroclor-1260 -Total	1	8163.72	0	1000	816 *	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127950.D	AD32707-011(20X)(MSD)	9/8/2022 8:36:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1580.6	0	1000	158 *	60	130
Aroclor-1260 -Total	1	3532.04	0	1000	353 *	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-001(20X)
Client Id: FA4-9
Data File: 6G127517.D
Analysis Date: 08/22/22 13:01
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**140**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**140**

Worksheet #: 680976

Total Target Concentration 140

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-002
Client Id: PGW-2
Data File: 6G127514.D
Analysis Date: 08/22/22 12:25
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.2**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.2**

Worksheet #: 680976

Total Target Concentration 4.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-003(5X)
Client Id: OU11-A
Data File: 6G127515.D
Analysis Date: 08/22/22 12:37
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**66**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**66**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-004(3X)
Client Id: OU11-B
Data File: 3G138874.D
Analysis Date: 08/16/22 20:30
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 3
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.75	U	**11097-69-1**	**(^)Aroclor-1254**	**0.75**	**28**
11104-28-2	Aroclor-1221	0.75	U	11096-82-5	Aroclor-1260	0.75	U
11141-16-5	Aroclor-1232	0.75	U	37324-23-5	Aroclor-1262	0.75	U
53469-21-9	Aroclor-1242	0.75	U	11100-14-4	Aroclor-1268	0.75	U
12672-29-6	Aroclor-1248	0.75	U	**1336-36-3**	**Aroclor (Total)**	**0.75**	**28**

Worksheet #: 680976

Total Target Concentration 28

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-005
Client Id: OU11-D
Data File: 3G138879.D
Analysis Date: 08/16/22 21:29
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.61**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.61**

Worksheet #: 680976

Total Target Concentration 0.61

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-006
Client Id: OU11-C
Data File: 3G138882.D
Analysis Date: 08/16/22 22:04
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-007
Client Id: OU11-E
Data File: 6G127512.D
Analysis Date: 08/22/22 12:02
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.36**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.36**

Worksheet #: 680976

Total Target Concentration 0.36

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-008
Client Id: OU11-F
Data File: 3G138876.D
Analysis Date: 08/16/22 20:54
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.8**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.8**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-009
Client Id: VE4-7
Data File: 6G127513.D
Analysis Date: 08/22/22 12:14
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.7**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.7**

Worksheet #: 680976

Total Target Concentration 3.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-010(5X)
Client Id: VE-9
Data File: 6G127516.D
Analysis Date: 08/22/22 12:49
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**17**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**17**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-011(20X)
Client Id: FA4-16
Data File: 6G127565.D
Analysis Date: 08/23/22 16:28
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**67**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**67**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 6G127452.D
Analysis Date: 08/18/22 15:34
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**6.5**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**6.5**

Worksheet #: 680976

Total Target Concentration 6.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102697
Client Id:
Data File: 3G138865.D
Analysis Date: 08/16/22 18:45
Date Rec/Extracted: NA-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.050	U	11097-69-1	Aroclor-1254	0.050	U
11104-28-2	Aroclor-1221	0.050	U	11096-82-5	Aroclor-1260	0.050	U
11141-16-5	Aroclor-1232	0.050	U	37324-23-5	Aroclor-1262	0.050	U
53469-21-9	Aroclor-1242	0.050	U	11100-14-4	Aroclor-1268	0.050	U
12672-29-6	Aroclor-1248	0.050	U				

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32707-012	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/12/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-50-8	Copper	10	16	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7439-92-1	Lead	3.0	8.5	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

QC102696 Pest

QC102697 PCB

Hampton-Clarke

Shaker Extraction: Pest (3510C) / PCB (3510C) / Other(_____):

Pest Batch No.: 102696
Start Ext Date/Time: 08/16/22 8:15 AM
End Ext. Date/Time: 08/16/22 3:26 PM
Recirculator: Start temp: 15:0 / 15:0
End temp: 14:8 / 15:0

PCB Batch No.: 102697
Shaker Used: 2, 3, 4
Condenser Used: 4 2 5
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments LV	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102696/97	x	x	1000ml	1 ml	10ul surr	AD32665 -001	EFV377745 08/11/22
MBS 102696/97	x	x	↓	5ml			
MS 32602-002		x	500 ml	↓			
MSD 32602-002		x	↓	↓			
MS 32665-001	x		100 ml	↓			
MSD 32665-001	x		↓	↓			
AD 32665-001	1		↓	↓		1	NO EF
AD 32621-001	2		↓	↓		2	1
EFV 377745 08/11/22	x		↓	↓		x	
AD 32627-003	3		950 ml	↓			
AD 32639-001	4	1	1000ml	1 ml	10ul surr		
AD 32664-001	5	2	↓	5ml			
AD 32665-001		3	100 ml	↓			
AD 32602-002		4	500 ml	2.5ml	½ surr		
AD 32622-001		5	1000 ml	5ml			
AD 32623-001		6	↓	↓			
-002		7	↓	↓			
AD 32707-001		8	↓	↓			
-002		9	↓	↓			
-003		10	↓	↓	Rack # 19		
-004		11	↓	↓			
-005		12	950 ml	↓			
-006		13	↓	↓			
-007		14	↓	↓			
-008		15	1000ml	↓			
-009		16	↓	↓			
-010		17	↓	↓			
Copper Cleanup:							
Sulfuric Acid Cleanup:	N/A	✓					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14726 baked Na_2SO_4: 372186 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: LV Date: 08/16/22

Received By: AR Date: 8/17/22

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2022.doc

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32715
May 12, 2023
Reissued; June 13, 2023
Sampling date: 8/11/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32715 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(6/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A), Inorganics (6020B) and Perfluorinated Hydrocarbons (537 modified).

DUSR ID	Sample ID	Laboratory ID	Laboratory #2 ID
1	VE2-1	AD32715-01	JD50085-1
2	VE1-4	AD32715-02	JD50085-2
3	VE4-11	AD32715-03	JD50085-3
4	VE1-2	AD32715-04	
5	DUPLICATE 08-11-22	AD32715-05	
6	EB 081122 1446	AD32715-06	JD50085-4
7	EB 081122 1505	AD32715-07	JD50085-5
8	EB 081122 1515 MS	AD32715-08	JD50085-5S
9	Trip Blank	AD32715-09	
10	EB 081122 1515 MSD	AD32715-10	JD50085-5D

The analysis of the Perfluorinated Hydrocarbons was subcontracted to SGS (Laboratory #2)

All target analytes in all of the analyses, except method 537 modified, were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation

-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. This sample was analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
#1M163698.D	m&p-Xylene	22.06	UJ/J	MB/MBS104010, 1-5

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met except the raw data for the initial calibration and continuing calibration off instrument GCMS_12Sm was not included in the original package. Those pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7. The %D was within limits, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#4. There were no associated target analytes detected in this sample, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the extraction log was illegible in the original package. An updated page is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of a surrogate was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified.

Surrogate	Column	Qualifier	Associated Sample
DCBP	1, 2	UJ/J	4, 5

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Holding Times, Serial Dilution and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met Form 3 and the serial dilution was not included in the original package. Those pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. Target analytes in this sample should be qualified as estimated.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except As was detected in DUSR ID#5 but was not detected in #4.

SERIAL DILUTION
All criteria were met except a target analyte was outside QC limits and should be qualified as estimated in the associated samples.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
#1SD	Cr	61	UJ	1

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

Samples: DUSR ID#1-3 were diluted due to matrix interference.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
13C5-PFHxA	UJ/J	3
d5-NEtFOSAA	UJ/J	2RE
13C2-PFTeDA	UJ/J	1, 1RE, 3, 3RE
13C3-PFBS	UJ/J	3
13C4-PFHpA	UJ/J	3
13C8-FOSA	UJ/J	1-3, 1RE-3RE

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except a target analyte was outside QC limits in the matrix spike and matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec 5MS	%Rec 5MSD	%RPD	Qualifier	Associated Sample
PFTA	-	-	44	UJ	5

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on most of the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: MNR-Harmon Yard

HC Project: 2081222

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
VE 2-1	AD32715-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-4	AD32715-002	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 4-11	AD32715-003	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-2	AD32715-004	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
DUPLICATE 08-11-22	AD32715-005	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
EB 081122 1446	AD32715-006	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
EB 081122 1505	AD32715-007	Aqueous	PFAs (EPA 537 mod)*
EB 081122 1515 MS	AD32715-008	Aqueous	PFAs (EPA 537 mod)*
Trip Blank	AD32715-009	Aqueous	No Analysis
EB 081122 1515 MSD	AD32715-010	Aqueous	PFAs (EPA 537 mod)*

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 104004, 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 104004. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32715-004, -005 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD32715-001, -002, -003, -006, -007, -008, -010 were submitted to SGS for PFAs analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	9/30/22 Date

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 1M163723.D
Analysis Date: 08/19/22 02:09
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	**108-88-3**	**Toluene**	**1.0**	**8.3**
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 8.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 1M163724.D
Analysis Date: 08/19/22 02:29
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 1M163725.D
Analysis Date: 08/19/22 02:50
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 1M163726.D
Analysis Date: 08/19/22 03:11
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 1M163727.D
Analysis Date: 08/19/22 03:32
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 2M172480.D
Analysis Date: 08/18/22 05:42
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M163698.D **Instrument:** GCMS 1

Cont Calibration Date/Time 8/18/2022 5:31:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.80	15.93	20	20		0.112	0.108	20.36	
cis-1,3-Dichloropropene	1	0		5.90	18.18	20	20	0.2	0.377	0.343	9.08	
trans-1,3-Dichloropropene	1	0		6.20	18.28	20	20	0.1	0.348	0.318	8.61	
Ethyl methacrylate	1	0		6.22	16.50	20	20	0.5	0.170	0.140	17.49	
1,1,2-Trichloroethane	1	0		6.31	21.17	20	20	0.1	0.230	0.243	5.83	
1,2-Dibromoethane	1	0		6.62	21.33	20	20	0.1	0.242	0.258	6.65	
1,3-Dichloropropane	1	0		6.41	20.73	20	20		0.372	0.385	3.64	
4-Methyl-2-Pentanone	1	0		5.97	21.74	20	20	0.1	0.161	0.175	8.72	
2-Hexanone	1	0		6.43	21.70	20	20	0.1	0.109	0.118	8.49	
Tetrachloroethene	1	0		6.41	19.46	20	20	0.2	0.257	0.250	2.72	
Toluene-d8	1	0	S	6.06	28.87	30	**		1.181	1.137	3.78	
Toluene	1	0		6.09	21.02	20	20	0.4	0.602	0.632	5.09	
1,1,1,2-Tetrachloroethane	1	0		6.92	20.25	20	20		0.273	0.276	1.25	
Chlorobenzene	1	0		6.89	20.50	20	20	0.5	0.714	0.732	2.51	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.14	15.35	20	20	0.5	0.549	0.541	23.23	C1
n-Amyl acetate	1	0		7.27	20.24	20	20	0.5	0.454	0.460	1.21	
Bromoform	1	0		7.35	24.08	20	20	0.1	0.322	0.388	20.42	
Ethylbenzene	1	0		6.93	21.77	20	20	0.1	0.510	0.556	8.83	
1,1,2,2-Tetrachloroethane	1	0		7.57	25.96	20	20	0.1	0.426	0.552	29.82	C1
Bromofluorobenzene	1	0	S	7.52	32.14	30	**		0.795	0.852	7.15	
Styrene	1	0		7.22	24.07	20	20	0.3	1.099	1.323	20.33	
m&p-Xylenes	1	0		6.99	48.82	40	20	0.1	0.656	0.801	22.06	C1
o-Xylene	1	0		7.22	23.51	20	20	0.3	0.670	0.787	17.56	
trans-1,4-Dichloro-2-butene	1	0		7.60	19.20	20	20		0.155	0.149	3.98	
1,3-Dichlorobenzene	1	0		8.14	22.46	20	20	0.6	0.858	0.963	12.28	
1,4-Dichlorobenzene	1	0		8.19	23.05	20	20	0.5	0.888	1.023	15.25	
1,2-Dichlorobenzene	1	0		8.42	22.70	20	20	0.4	0.807	0.916	13.52	
Isopropylbenzene	1	0		7.42	23.76	20	20	0.1	1.493	1.773	18.80	
Cyclohexanone	1	0		7.49	119.13	100	20		0.012	0.014	19.13	
Camphene	1	0		7.59	18.91	20	20		0.415	0.393	5.43	
1,2,3-Trichloropropane	1	0		7.61	23.99	20	20		0.525	0.630	19.95	
2-Chlorotoluene	1	0		7.72	24.08	20	20		0.970	1.168	20.40	
p-Ethyltoluene	1	0		7.71	21.66	20	20		1.549	1.677	8.30	
4-Chlorotoluene	1	0		7.77	23.80	20	20		0.933	1.110	19.00	
n-Propylbenzene	1	0		7.64	23.58	20	20		1.653	1.948	17.90	
Bromobenzene	1	0		7.62	23.17	20	20		0.945	1.095	15.86	
1,3,5-Trimethylbenzene	1	0		7.73	23.77	20	20		1.143	1.359	18.86	
Butyl methacrylate	1	0		7.74	19.05	20	20	0.5	0.343	0.327	4.76	
t-Butylbenzene	1	0		7.93	22.21	20	20		1.173	1.303	11.07	
1,2,4-Trimethylbenzene	1	0		7.96	22.88	20	20		1.194	1.366	14.39	
sec-Butylbenzene	1	0		8.06	21.76	20	20		1.340	1.458	8.80	
4-Isopropyltoluene	1	0		8.13	20.81	20	20		1.183	1.231	4.03	
n-Butylbenzene	1	0		8.37	20.16	20	20		1.209	1.219	0.81	
p-Diethylbenzene	1	0		8.35	18.47	20	20		0.725	0.670	7.67	
1,2,4,5-Tetramethylbenzene	1	0		8.81	16.10	20	20		0.938	0.905	19.51	
1,2-Dibromo-3-Chloropropane	1	0		8.86	26.11	20	20	0.05	0.102	0.133	30.57	C1
Camphor	1	0		9.30	173.64	200	20		0.034	0.041	13.18	
Hexachlorobutadiene	1	0		9.45	20.17	20	20		0.215	0.216	0.84	
1,2,4-Trichlorobenzene	1	0		9.36	22.47	20	20	0.2	0.432	0.485	12.34	
1,2,3-Trichlorobenzene	1	0		9.66	23.58	20	20		0.362	0.426	17.88	
Naphthalene	1	0		9.52	17.20	20	20		0.956	1.208	13.98	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M163702.D
Analysis Date: 08/18/22 18:54
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M114930.D	WMB102735	A	08/19/22 10:00	1		NA	NA	106	96	NA	118
9M114936.D	AD32715-001	A	08/19/22 12:18	1		NA	NA	105	102	NA	120
9M114937.D	AD32715-002	A	08/19/22 12:41	1		NA	NA	106	106	NA	112
9M114938.D	AD32715-003	A	08/19/22 13:04	1		NA	NA	109	107	NA	121
9M114939.D	AD32715-004	A	08/19/22 13:28	1		NA	NA	130	127	NA	130
9M114940.D	AD32715-005	A	08/19/22 13:51	1		NA	NA	121	124	NA	128
9M114935.D	AD32715-006	A	08/19/22 11:55	1		NA	NA	114	108	NA	127
9M114929.D	WMB102735(MS)	A	08/19/22 09:37	1		NA	NA	102	89	NA	126
9M114932.D	AD32618-001(T)	A	08/19/22 10:46	1		NA	NA	112	103	NA	120
9M114933.D	AD32618-001(T)(MS)	A	08/19/22 11:09	1		NA	NA	107	95	NA	122
9M114934.D	AD32618-001(T)(MSD)	A	08/19/22 11:32	1		NA	NA	107	90	NA	122

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 9M114936.D
Analysis Date: 08/19/22 12:18
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 12M63601.D
Analysis Date: 08/19/22 12:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 9M114937.D
Analysis Date: 08/19/22 12:41
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 12M63602.D
Analysis Date: 08/19/22 12:50
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 9M114938.D
Analysis Date: 08/19/22 13:04
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 12M63603.D
Analysis Date: 08/19/22 13:11
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 9M114939.D
Analysis Date: 08/19/22 13:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**5.5**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**12**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 12M63604.D
Analysis Date: 08/19/22 13:33
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 9M114940.D
Analysis Date: 08/19/22 13:51
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**4.3**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**10**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 12M63605.D
Analysis Date: 08/19/22 13:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 9M114935.D
Analysis Date: 08/19/22 11:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 12M63600.D
Analysis Date: 08/19/22 12:06
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G127443.D	WMB102719	A	08/18/22 13:49	1		87	84	98	97		
6G127457.D	AD32715-001	A	08/18/22 16:33	1		81	83	93	92		
6G127455.D	AD32715-002	A	08/18/22 16:09	1		97	95	108	104		
6G127456.D	AD32715-003	A	08/18/22 16:21	1		95	95	96	94		
6G127454.D	AD32715-004	A	08/18/22 15:58	1		115	116	206 *	198 *		
6G127453.D	AD32715-005	A	08/18/22 15:46	1		109	110	191 *	189 *		
6G127458.D	AD32715-006	A	08/18/22 16:45	1		81	76	90	90		
6G127442.D	WMB102719(MS)	A	08/18/22 13:37	1		86	79	103	108		
6G127565.D	AD32707-011(20X)	A	08/23/22 16:28	20		43	45	53	55		
6G127949.D	AD32707-011(20X)(MS)	A	09/08/22 08:25	20		89	101	123	111		
6G127950.D	AD32707-011(20X)(MS	A	09/08/22 08:36	20		98	95	117	118		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 6G127457.D
Analysis Date: 08/18/22 16:33
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 6G127455.D
Analysis Date: 08/18/22 16:09
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 6G127456.D
Analysis Date: 08/18/22 16:21
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.0**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 6G127454.D
Analysis Date: 08/18/22 15:58
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 6G127453.D
Analysis Date: 08/18/22 15:46
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 6G127458.D
Analysis Date: 08/18/22 16:45
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102719
Client Id:
Data File: 6G127443.D
Analysis Date: 08/18/22 13:49
Date Rec/Extracted: NA-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/14/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	34	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	14	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	2.4	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-50-8	Copper	10	29	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7439-92-1	Lead	3.0	21	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUPLICATE 08-11-22	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.3	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	7.5	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-50-8	Copper	10	160	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7439-92-1	Lead	3.0	51	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	EB 081122 1446	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Hampton Clarke-Veritech	**Job No:**	JD50085
Site:	Project# 2081222	**Report Date**	8/31/2022 6:35:03 PM

On 08/16/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD50085 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** F:OP92717

- The data for EPA 537M BY ID meets quality control requirements.
- JD50085-1: Analysis performed at SGS Orlando, FL.
- JD50085-1: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-2: Analysis performed at SGS Orlando, FL.
- JD50085-2: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-3: Analysis performed at SGS Orlando, FL.
- JD50085-3: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-4: Analysis performed at SGS Orlando, FL.
- JD50085-5: Analysis performed at SGS Orlando, FL.
- JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
- JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD50085

Site: HCVNJF: Project# 2081222 **Report Date:** 8/31/2022 6:23:57 PM

On 08/18/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD50085 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP92717

Sample(s) JD50085-5MS, JD50085-5MSD were used as the QC samples indicated.

RPD(s) for MSD for Perfluorotetradecanoic acid are outside control limits for sample OP92717-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) JD50085-1, JD50085-2, JD50085-3 have surrogates outside control limits.

JD50085-1: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

JD50085-1 for 13C5-PFPeA: Outside control limits.

JD50085-1 for 13C8-FOSA: Outside control limits.

JD50085-2 for 13C8-FOSA: Outside control limits.

JD50085-2: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3 for 13C3-PFBS: Outside control limits.

JD50085-3 for 13C4-PFBA: Outside control limits.

JD50085-3 for 13C4-PFHpA: Outside control limits.

JD50085-3 for 13C5-PFHxA: Outside control limits.

JD50085-3 for 13C5-PFPeA: Outside control limits.

JD50085-3 for 13C8-FOSA: Outside control limits.

JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4045.D	1	08/30/22 07:48	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4112.D	5	08/31/22 03:01	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0044	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	0.0048	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0046	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0073	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0028	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0154	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0605	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	56%	73%	35-135%
	13C5-PFPeA	48% e	74%	50-150%
	13C5-PFHxA	71%	96%	50-150%
	13C4-PFHpA	72%	95%	50-150%
	13C8-PFOA	66%	94%	50-150%
	13C9-PFNA	59%	95%	50-150%
	13C6-PFDA	75%	100%	50-150%
	13C7-PFUnDA	74%	95%	40-140%
	13C2-PFDoDA	72%	86%	40-140%
	13C2-PFTeDA	40%	32%	30-130%
	13C3-PFBS	58%	77%	50-150%
	13C3-PFHxS	81%	98%	50-150%
	13C8-PFOS	74%	93%	50-150%
	13C8-FOSA	12% e	23% e	30-130%
	d3-MeFOSAA	61%	120%	40-140%
	d5-EtFOSAA	75%	123%	40-140%
	13C2-6:2FTS	73%	104%	50-150%
	13C2-8:2FTS	85%	113%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4046.D	1	08/30/22 08:03	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4113.D	5	08/31/22 03:16	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0041	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0198	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	0.0097	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0082	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0123	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	0.0019	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0555	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	70%	96%	35-135%
	13C5-PFPeA	68%	95%	50-150%
	13C5-PFHxA	91%	110%	50-150%
	13C4-PFHpA	91%	111%	50-150%
	13C8-PFOA	89%	109%	50-150%
	13C9-PFNA	85%	106%	50-150%
	13C6-PFDA	79%	103%	50-150%
	13C7-PFUnDA	81%	92%	40-140%
	13C2-PFDoDA	79%	93%	40-140%
	13C2-PFTeDA	73%	73%	30-130%
	13C3-PFBS	76%	98%	50-150%
	13C3-PFHxS	93%	114%	50-150%
	13C8-PFOS	82%	99%	50-150%
	13C8-FOSA	29% [d]	45%	30-130%
	d3-MeFOSAA	94%	149% [d]	40-140%
	d5-EtFOSAA	112%	160% [d]	40-140%
	13C2-6:2FTS	95%	120%	50-150%
	13C2-8:2FTS	94%	125%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4049.D	1	08/30/22 08:49	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4114.D	5	08/31/22 03:32	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND [c]	0.018	0.0089	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	ND [c]	0.0089	0.0045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND [c]	0.0089	0.0045	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	0.0089	0.0045	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0094	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0066	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	34% [e]	66%	35-135%
	13C5-PFPeA	33% [e]	55%	50-150%
	13C5-PFHxA	45% [e]	78%	50-150%
	13C4-PFHpA	49% [e]	84%	50-150%
	13C8-PFOA	55%	85%	50-150%
	13C9-PFNA	62%	90%	50-150%
	13C6-PFDA	71%	89%	50-150%
	13C7-PFUnDA	71%	82%	40-140%
	13C2-PFDoDA	68%	75%	40-140%
	13C2-PFTeDA	47%	39%	30-130%
	13C3-PFBS	41% [e]	64%	50-150%
	13C3-PFHxS	67%	87%	50-150%
	13C8-PFOS	69%	89%	50-150%
	13C8-FOSA	11% [e]	19% [e]	30-130%
	d3-MeFOSAA	59%	109%	40-140%
	d5-EtFOSAA	77%	111%	40-140%
	13C2-6:2FTS	64%	91%	50-150%
	13C2-8:2FTS	81%	104%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4050.D	1	08/30/22 09:04	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	111%		35-135%
	13C5-PFPeA	116%		50-150%
	13C5-PFHxA	116%		50-150%
	13C4-PFHpA	117%		50-150%
	13C8-PFOA	119%		50-150%
	13C9-PFNA	117%		50-150%
	13C6-PFDA	111%		50-150%
	13C7-PFUnDA	107%		40-140%
	13C2-PFDoDA	98%		40-140%
	13C2-PFTeDA	91%		30-130%
	13C3-PFBS	115%		50-150%
	13C3-PFHxS	114%		50-150%
	13C8-PFOS	109%		50-150%
	13C8-FOSA	108%		30-130%
	d3-MeFOSAA	105%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	112%		50-150%
	13C2-8:2FTS	104%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4051.D	1	08/30/22 09:20	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	116%		35-135%
	13C5-PFPeA	121%		50-150%
	13C5-PFHxA	120%		50-150%
	13C4-PFHpA	119%		50-150%
	13C8-PFOA	122%		50-150%
	13C9-PFNA	120%		50-150%
	13C6-PFDA	115%		50-150%
	13C7-PFUnDA	110%		40-140%
	13C2-PFDoDA	104%		40-140%
	13C2-PFTeDA	97%		30-130%
	13C3-PFBS	119%		50-150%
	13C3-PFHxS	118%		50-150%
	13C8-PFOS	113%		50-150%
	13C8-FOSA	109%		30-130%
	d3-MeFOSAA	107%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	114%		50-150%
	13C2-8:2FTS	108%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	35-135%
	13C5-PFPeA	106%	50-150%
	13C5-PFHxA	107%	50-150%
	13C4-PFHpA	109%	50-150%
	13C8-PFOA	108%	50-150%
	13C9-PFNA	108%	50-150%
	13C6-PFDA	108%	50-150%
	13C7-PFUnDA	105%	40-140%
	13C2-PFDoDA	100%	40-140%
	13C2-PFTeDA	81%	30-130%
	13C3-PFBS	106%	50-150%

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	106%	50-150%
	13C8-PFOS	107%	50-150%
	13C8-FOSA	90%	30-130%
	d3-MeFOSAA	100%	40-140%
	d5-EtFOSAA	92%	40-140%
	13C2-4:2FTS	99%	50-150%
	13C2-6:2FTS	102%	50-150%
	13C2-8:2FTS	102%	50-150%
	13C3-HFPO-DA	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	102%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	103%	50-150%
	13C9-PFNA	104%	50-150%
	13C6-PFDA	103%	50-150%
	13C7-PFUnDA	102%	50-150%
	13C2-PFDoDA	100%	50-150%
	13C2-PFTeDA	93%	50-150%
	13C3-PFBS	103%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	104%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	102%	50-150%
	d3-MeFOSAA	97%	50-150%
	d5-EtFOSAA	96%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	96%	50-150%
	13C2-8:2FTS	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q64-IBLK	5Q4062.D	1	08/30/22	AL	n/a	n/a	S5Q64

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	101%	50-150%
	13C9-PFNA	102%	50-150%
	13C6-PFDA	104%	50-150%
	13C7-PFUnDA	101%	50-150%
	13C2-PFDoDA	103%	50-150%
	13C2-PFTeDA	103%	50-150%
	13C3-PFBS	104%	50-150%
	13C3-PFHxS	103%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	93%	50-150%
	d3-MeFOSAA	93%	50-150%
	d5-EtFOSAA	92%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	94%	50-150%
	13C2-8:2FTS	97%	50-150%

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0661	83	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0669	84	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0676	85	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0755	94	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0667	83	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0680	85	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0681	85	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0681	85	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0675	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0610	76	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0699	87	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0675	84	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0671	84	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0672	84	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0660	83	70-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0580	73	60-130
754-91-6	PFOSA	0.08	0.0671	84	70-130
2355-31-9	MeFOSAA	0.08	0.0673	84	70-130
2991-50-6	EtFOSAA	0.08	0.0688	86	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0681	85	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0673	84	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	115%	35-135%
	13C5-PFPeA	119%	50-150%
	13C5-PFHxA	118%	50-150%
	13C4-PFHpA	120%	50-150%
	13C8-PFOA	119%	50-150%
	13C9-PFNA	120%	50-150%
	13C6-PFDA	119%	50-150%
	13C7-PFUnDA	116%	40-140%
	13C2-PFDoDA	116%	40-140%
	13C2-PFTeDA	99%	30-130%
	13C3-PFBS	117%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	BSP	Limits
	13C3-PFHxS	120%	50-150%
	13C8-PFOS	120%	50-150%
	13C8-FOSA	106%	30-130%
	d3-MeFOSAA	110%	40-140%
	d5-EtFOSAA	107%	40-140%
	13C2-4:2FTS	114%	50-150%
	13C2-6:2FTS	118%	50-150%
	13C2-8:2FTS	118%	50-150%
	13C3-HFPO-DA	108%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	JD50085-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	ND		0.0714	0.0626	88	0.0833	0.0772	93	21	70-130/30
2706-90-3	Perfluoropentanoic acid	ND		0.0714	0.0640	90	0.0833	0.0780	94	20	70-130/30
307-24-4	Perfluorohexanoic acid	ND		0.0714	0.0644	90	0.0833	0.0784	94	20	70-130/30
375-85-9	Perfluoroheptanoic acid	ND		0.0714	0.0733	103	0.0833	0.0892	107	20	70-130/30
335-67-1	Perfluorooctanoic acid	ND		0.0714	0.0638	89	0.0833	0.0781	94	20	70-130/30
375-95-1	Perfluorononanoic acid	ND		0.0714	0.0654	92	0.0833	0.0798	96	20	70-130/30
335-76-2	Perfluorodecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0793	95	19	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0714	0.0626	88	0.0833	0.0785	94	23	70-130/30
307-55-1	Perfluorododecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0809	97	21	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0714	0.0613	86	0.0833	0.0763	92	22	60-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0714	0.0585	82	0.0833	0.0917	110	44*	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0784	94	20	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.0714	0.0656	92	0.0833	0.0798	96	20	70-130/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0714	0.0679	95	0.0833	0.0840	101	21	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0799	96	22	70-130/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0714	0.0535	75	0.0833	0.0663	80	21	60-130/30
754-91-6	PFOSA	ND		0.0714	0.0632	88	0.0833	0.0791	95	22	70-130/30
2355-31-9	MeFOSAA	ND		0.0714	0.0663	93	0.0833	0.0805	97	19	70-130/30
2991-50-6	EtFOSAA	ND		0.0714	0.0692	97	0.0833	0.0826	99	18	70-130/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.0714	0.0657	92	0.0833	0.0795	95	19	70-130/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.0714	0.0666	93	0.0833	0.0792	95	17	70-130/30

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C4-PFBA	110%	106%	116%	35-135%
	13C5-PFPeA	115%	112%	121%	50-150%
	13C5-PFHxA	114%	112%	120%	50-150%
	13C4-PFHpA	115%	112%	119%	50-150%
	13C8-PFOA	116%	111%	122%	50-150%
	13C9-PFNA	113%	108%	120%	50-150%
	13C6-PFDA	108%	102%	115%	50-150%
	13C7-PFUnDA	103%	97%	110%	40-140%
	13C2-PFDoDA	95%	91%	104%	40-140%
	13C2-PFTeDA	101%	87%	97%	30-130%
	13C3-PFBS	114%	110%	119%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C3-PFHxS	112%	108%	118%	50-150%
	13C8-PFOS	107%	100%	113%	50-150%
	13C8-FOSA	101%	95%	109%	30-130%
	d3-MeFOSAA	99%	93%	107%	40-140%
	d5-EtFOSAA	92%	89%	98%	40-140%
	13C2-4:2FTS	111%	109%		50-150%
	13C2-6:2FTS	113%	110%	114%	50-150%
	13C2-8:2FTS	105%	101%	108%	50-150%
	13C3-HFPO-DA	113%	108%		50-150%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD50085-1	5Q4112.D	73	74	96	95	94	95	100	95
JD50085-1	5Q4045.D	56	48* [a]	71	72	66	59	75	74
JD50085-2	5Q4113.D	96	95	110	111	109	106	103	92
JD50085-2	5Q4046.D	70	68	91	91	89	85	79	81
JD50085-3	5Q4114.D	66	55	78	84	85	90	89	82
JD50085-3	5Q4049.D	34* [a]	33* [a]	45* [a]	49* [a]	55	62	71	71
JD50085-4	5Q4050.D	111	116	116	117	119	117	111	107
JD50085-5	5Q4051.D	116	121	120	119	122	120	115	110
OP92717-BS	5Q4037.D	115	119	118	120	119	120	119	116
OP92717-MB	5Q4038.D	104	106	107	109	108	108	108	105
OP92717-MS	5Q4052.D	110	115	114	115	116	113	108	103
OP92717-MSD	5Q4053.D	106	112	112	112	111	108	102	97

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	35-135%
S2 = 13C5-PFPeA	50-150%
S3 = 13C5-PFHxA	50-150%
S4 = 13C4-PFHpA	50-150%
S5 = 13C8-PFOA	50-150%
S6 = 13C9-PFNA	50-150%
S7 = 13C6-PFDA	50-150%
S8 = 13C7-PFUnDA	40-140%

(a) Outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD50085-1	5Q4112.D	86	32	77	98	93	23* [a]	120	123
JD50085-1	5Q4045.D	72	40	58	81	74	12* [a]	61	75
JD50085-2	5Q4113.D	93	73	98	114	99	45	149* [a]	160* [a]
JD50085-2	5Q4046.D	79	73	76	93	82	29* [a]	94	112
JD50085-3	5Q4114.D	75	39	64	87	89	19* [a]	109	111
JD50085-3	5Q4049.D	68	47	41* [a]	67	69	11* [a]	59	77
JD50085-4	5Q4050.D	98	91	115	114	109	108	105	98
JD50085-5	5Q4051.D	104	97	119	118	113	109	107	98
OP92717-BS	5Q4037.D	116	99	117	120	120	106	110	107
OP92717-MB	5Q4038.D	100	81	106	106	107	90	100	92
OP92717-MS	5Q4052.D	95	101	114	112	107	101	99	92
OP92717-MSD	5Q4053.D	91	87	110	108	100	95	93	89

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	40-140%
S10 = 13C2-PFTeDA	30-130%
S11 = 13C3-PFBS	50-150%
S12 = 13C3-PFHxS	50-150%
S13 = 13C8-PFOS	50-150%
S14 = 13C8-FOSA	30-130%
S15 = d3-MeFOSAA	40-140%
S16 = d5-EtFOSAA	40-140%

(a) Outside control limits.

2081222 0342

Form 6
Initial Calibration

Method: EPA8270E SIM

Instrument: GCMS_12Sm

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	12M63510.D	CAL SIM@5PPM	08/15/22 11:52	2	12M63511.D	CAL SIM@0.02PPM	08/15/22 12:14
3	12M63503.D	CAL SIM@0.1PPM	08/15/22 09:21	4	12M63504.D	CAL SIM@0.2PPM	08/15/22 09:43
5	12M63506.D	CAL SIM@0.5PPM	08/15/22 10:26	6	12M63507.D	CAL SIM@1PPM	08/15/22 10:48
7	12M63508.D	CAL SIM@10PPM	08/15/22 11:09	8	12M63512.D	CAL SIM@19.6PPM	08/15/22 12:37

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0064	----	1.2150	1.2030	1.0470	1.1278	0.9642	0.9220	----	1.07	2.58	0.999	1.00	11		5.00		0.10	0.20	0.50	1.00	10.00	19.60	
N-Nitrosodimethylamin	1	0	Avg	1.0355	----	----	0.9188	0.9080	0.9849	1.0126	0.8907	----	0.958	2.97	0.995	1.00	6.3	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
bis(2-Chloroethyl)ether	1	0	Avg	1.3978	1.7625	1.6996	1.6718	1.6413	1.6731	1.3006	1.0716	----	1.53	5.56	0.982	0.999	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Methylphenol	1	0	Avg	1.0456	0.8115	0.9255	0.8596	0.7962	0.9160	1.0641	0.9259	----	0.918	5.98	0.995	1.00	11		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachloroethane	1	0	Avg	0.4633	0.5291	0.4763	0.4687	0.4494	0.4705	0.4621	0.4161	----	0.467	6.20	0.997	1.00	6.7	0.30	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
3&4-Methylphenol	1	0	Avg	1.0948	0.8878	0.8721	0.8302	0.7850	0.9248	1.0666	0.9438	----	0.926	6.10	0.995	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Nitrobenzene-d5	1	0	Avg	0.2092	0.2063	0.2149	0.1995	0.1941	0.2172	0.1951	0.1697	----	0.201	6.22	0.994	1.00	7.6		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
2,4-Dimethylphenol	1	0	Avg	0.1905	0.1515	0.1658	0.1463	0.1409	0.1639	0.1933	0.1728	----	0.166	6.52	0.997	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Naphthalene	1	0	Avg	0.8323	1.1799	0.9714	0.9534	0.9171	0.9218	0.8551	0.6778	----	0.914	6.80	0.986	0.999	16	0.70 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobutadiene	1	0	Avg	0.1666	0.2172	0.1954	0.1900	0.1749	0.1806	0.1623	0.1473	----	0.179	6.90	0.997	1.00	12	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorocyclopenta	1	0	Avg	0.2996	----	----	0.3113	0.2750	0.2719	0.3290	0.2883	----	0.296	7.46	0.995	0.999	7.4		5.00			0.20	0.50	1.00	10.00	19.60	
2,4,5-Trichlorophenol	1	0	Avg	0.3476	0.2732	0.2336	0.2199	0.2287	0.2847	0.3149	0.2957	----	0.275	7.58	0.997	1.00	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Fluorobiphenyl	1	0	Qua	0.9480	1.4142	1.2992	1.3275	1.2973	1.2860	0.8647	0.6102	----	1.13	7.62	0.960	0.999	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Acenaphthylene	1	0	Avg	1.8300	1.8894	1.7461	1.6561	1.6885	1.8028	1.9695	1.4666	----	1.76	8.08	0.976	0.997	8.9	0.90	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Acenaphthene	1	0	Avg	1.1049	1.3372	1.2135	1.2612	1.2158	1.2388	1.1341	0.8515	----	1.17	8.23	0.977	0.998	13	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzofuran	1	0	Qua	1.5642	2.2836	1.9898	2.0661	1.9885	1.9410	1.5535	1.1793	----	1.82	8.39	0.978	0.999	20		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluorene	1	0	Avg	1.0822	1.0713	1.0818	0.9908	1.0580	1.1077	1.1300	0.8487	----	1.05	8.71	0.977	0.998	8.6	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
4,6-Dinitro-2-methylph	1	0	Qua	0.0469	----	----	0.0190	0.0176	0.0223	0.0572	0.0747	----	0.0396	8.74	0.969	0.999	60	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
1,2-Diphenylhydrazine	1	0	Qua	0.6398	0.4310	0.4407	0.4471	0.4781	0.5937	0.6364	0.5604	----	0.528	8.85	0.995	1.00	17		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobenzene	1	0	Avg	0.2286	0.2793	0.2474	0.2547	0.2483	0.2549	0.2230	0.1972	----	0.242	9.25	0.996	1.00	10	0.10	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pentachlorophenol	1	0	Qua	0.0877	----	----	0.0445	0.0397	0.0527	0.0980	0.1023	----	0.0709	9.45	0.999	1.00	40	0.05 a	5.00			0.20	0.50	1.00	10.00	19.60	
Phenanthrene	1	0	Avg	1.0183	1.1884	1.1015	1.0841	1.0638	1.1290	0.9976	0.8404	----	1.05	9.69	0.992	1.00	10	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Anthracene	1	0	Avg	0.9224	0.7558	0.7628	0.7649	0.7924	0.8867	0.8958	0.7885	----	0.821	9.74	0.995	1.00	8.3	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Carbazole	1	0	Avg	0.9161	0.6819	0.7461	0.7864	0.7828	0.9179	0.8736	0.7619	----	0.808	9.91	0.994	1.00	11	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluoranthene	1	0	Avg	1.0537	0.7510	0.8000	0.8518	0.8539	0.9739	1.0653	0.9311	----	0.910	11.01	0.995	1.00	13	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pyrene	1	0	Avg	2.1889	2.7901	2.3462	2.4332	2.2918	2.2965	2.2626	2.0226	----	2.33	11.28	0.997	0.999	9.5	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Terphenyl-d14	1	0	Qua	0.9570	1.3742	1.4282	1.5164	1.4435	1.3188	0.8927	0.7324	----	1.21	11.47	0.988	1.00	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Benzo[a]anthracene	1	0	Qua	1.3198	1.1062	0.8228	0.9524	0.8022	1.0192	1.4614	1.3496	----	1.10	12.70	0.998	0.999	23	0.80	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Chrysene	1	0	Avg	1.3783	1.8595	1.5592	1.5935	1.5710	1.5391	1.3840	1.2293	----	1.51	12.74	0.996	1.00	12	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[b]fluoranthene	1	0	Avg	1.8431	1.3816	1.5534	1.6297	1.4217	1.5396	1.8835	1.5747	----	1.60	13.92	0.992	0.996	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[k]fluoranthene	1	0	Avg	2.1143	1.6909	1.6250	1.8039	2.1026	2.4892	2.0215	1.6419	----	1.94	13.95	0.987	1.00	16	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[a]pyrene	1	0	LinF	1.7994	1.4734	1.0793	1.2438	1.2128	1.3871	1.9212	1.6479	----	1.47	14.27	0.994	0.999	20	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.8277	1.4141	1.2062	1.2881	1.2668	1.4118	1.9796	1.7450	----	1.52	15.61	0.994	0.994	19	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzo[a,h]anthracen	1	0	Qua	1.5358	1.1430	1.0208	1.0520	1.0842	1.2055	1.5607	1.3586	----	1.25	15.64	0.994	0.995	17	0.40	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[g,h,i]perylene	1	0	Avg	1.6547	1.6758	1.2666	1.4044	1.3650	1.4943	1.7190	1.4756	----	1.51	15.97	0.994	0.999	11	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.42
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52

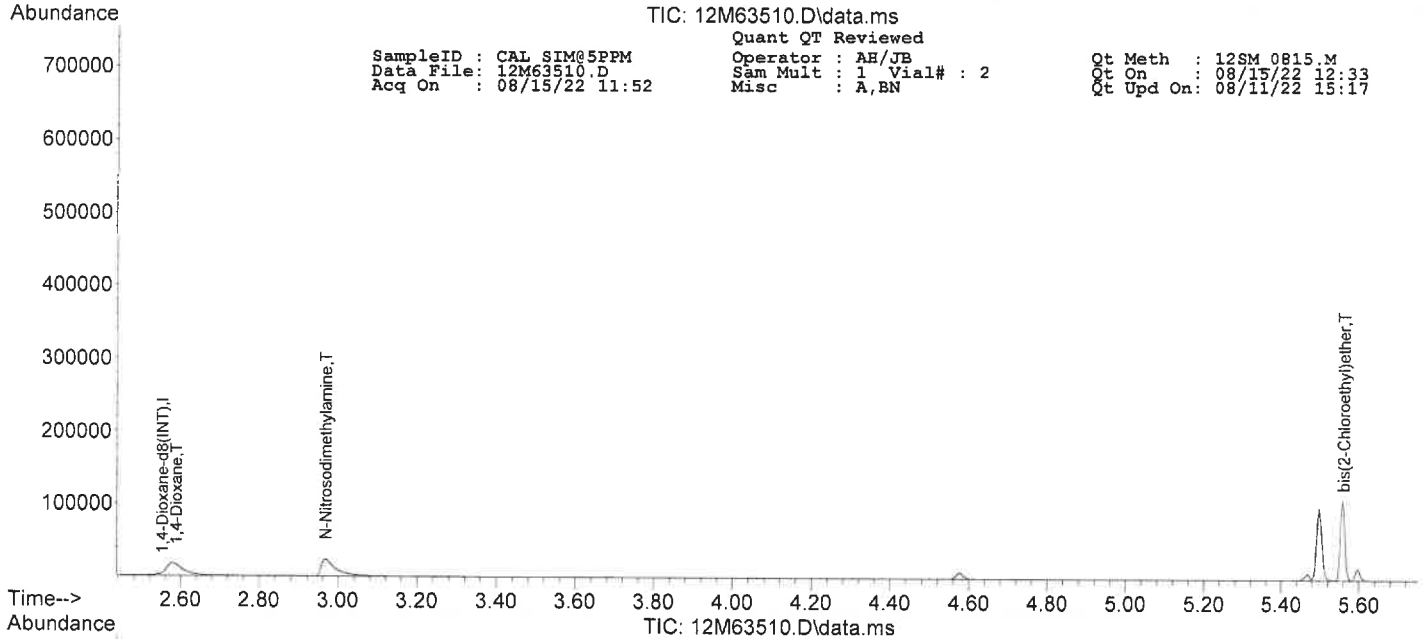
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

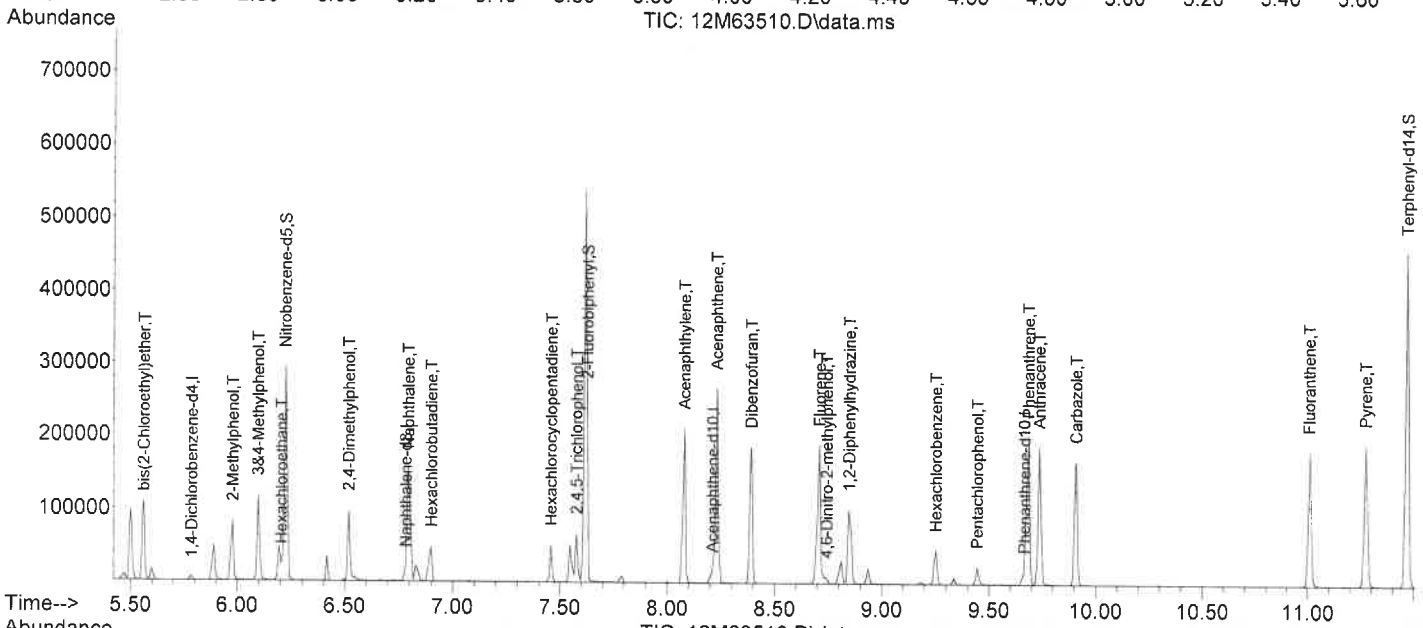
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17

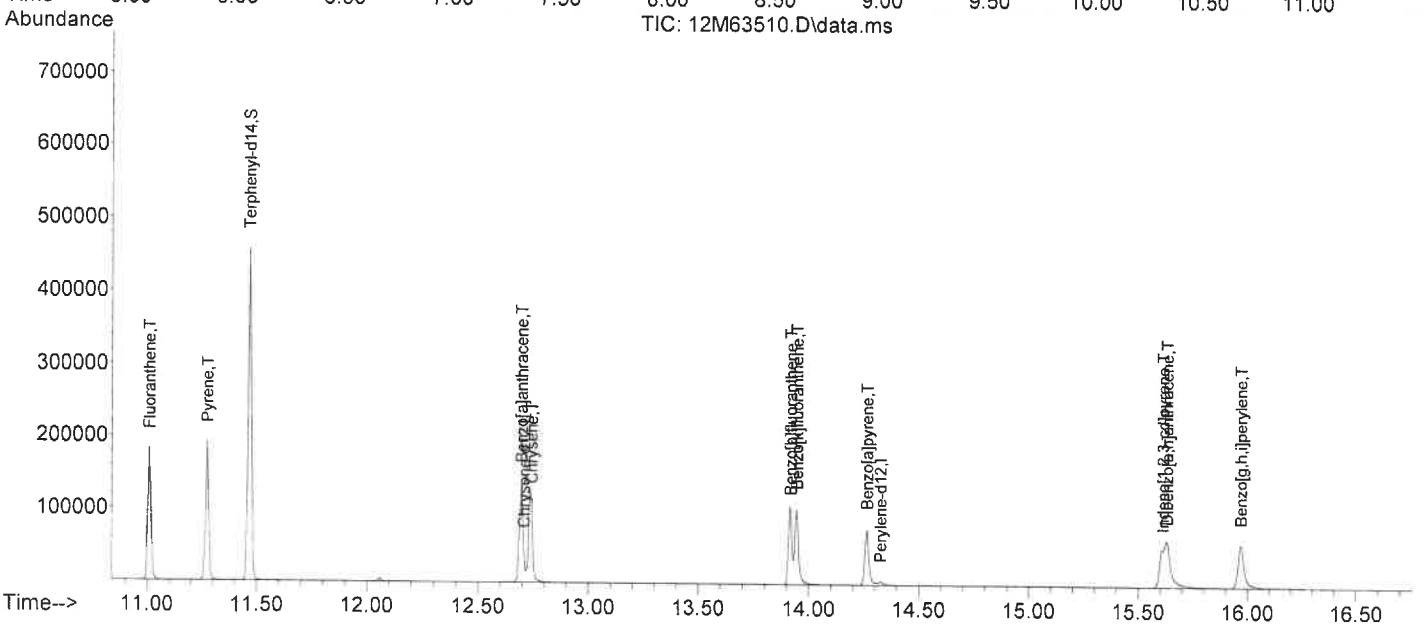
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.554	96	22615	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30910	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	140421	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62845	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	119371	0.40	ng	0.00
31) Chrysene-d12	12.705	240	62710m	0.40	ng	0.00
36) Perylene-d12	14.329	264	36908	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1835980	25.98	ng	0.00
Spiked Amount 50.000			Recovery = 51.96%			
17) 2-Fluorobiphenyl	7.620	172	3723688	20.66	ng	0.00
Spiked Amount 50.000			Recovery = 41.32%			
33) Terphenyl-d14	11.470	244	3750953	23.76	ng	0.00
Spiked Amount 50.000			Recovery = 47.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.584	88	284504	5.1623	ng	98
4) N-Nitrosodimethylamine	2.970	74	400102	5.2297	ng	81
5) bis(2-Chloroethyl)ether	5.562	93	540099	4.4968	ng	90
6) 2-Methylphenol	5.981	108	403996	5.3716	ng	85
7) Hexachloroethane	6.200	201	179005	5.0319	ng	38
8) 3&4-Methylphenol	6.095	108	423030m	5.9971	ng	
11) 2,4-Dimethylphenol	6.519	107	334436	4.8822	ng	80
12) Naphthalene	6.799	128	1460930	4.3749	ng	98
13) Hexachlorobutadiene	6.902	225	292504	3.9401	ng	51
15) Hexachlorocyclopentadiene	7.463	237	235377	5.5450	ng	99
16) 2,4,5-Trichlorophenol	7.576	196	273127m	5.3304	ng	
18) Acenaphthylene	8.083	152	1437630	4.9821	ng	98
19) Acenaphthene	8.233	153	868036	4.6589	ng	76
20) Dibenzofuran	8.393	168	1228851	4.3098	ng	99
21) Fluorene	8.711	166	850165	5.0041	ng	98
23) 4,6-Dinitro-2-methylph...	8.744	198	70008	8.5006	ng	86
24) 1,2-Diphenylhydrazine	8.850	77	954787	5.8913	ng	81
25) Hexachlorobenzene	9.254	284	341118	4.9652	ng	80
26) Pentachlorophenol	9.448	266	130973	5.8668	ng	88
27) Phenanthrene	9.686	178	1519442	4.9142	ng	99
28) Anthracene	9.738	178	1376349	5.6195	ng	98
29) Carbazole	9.910	167	1367056	5.3810	ng	97
30) Fluoranthene	11.013	202	1572285	5.6857	ng	98
32) Pyrene	11.277	202	1715868	4.6028	ng	83
34) Benzo[a]anthracene	12.697	228	1034589	5.5136	ng	97
35) Chrysene	12.739	228	1080458	4.5812	ng	96
37) Benzo[b]fluoranthene	13.918	252	850329	5.2127	ng	91
38) Benzo[k]fluoranthene	13.946	252	975447m	5.4437	ng	
39) Benzo[a]pyrene	14.266	252	830181	5.0426	ng	93
40) Indeno[1,2,3-cd]pyrene	15.611	276	843233	5.3532	ng	98
41) Dibenzo[a,h]anthracene	15.634	278	708546m	5.4169	ng	
42) Benzo[g,h,i]perylene	15.971	276	763398	5.0714	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63510.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52
Operator : AE/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63510.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63510.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]anthracene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

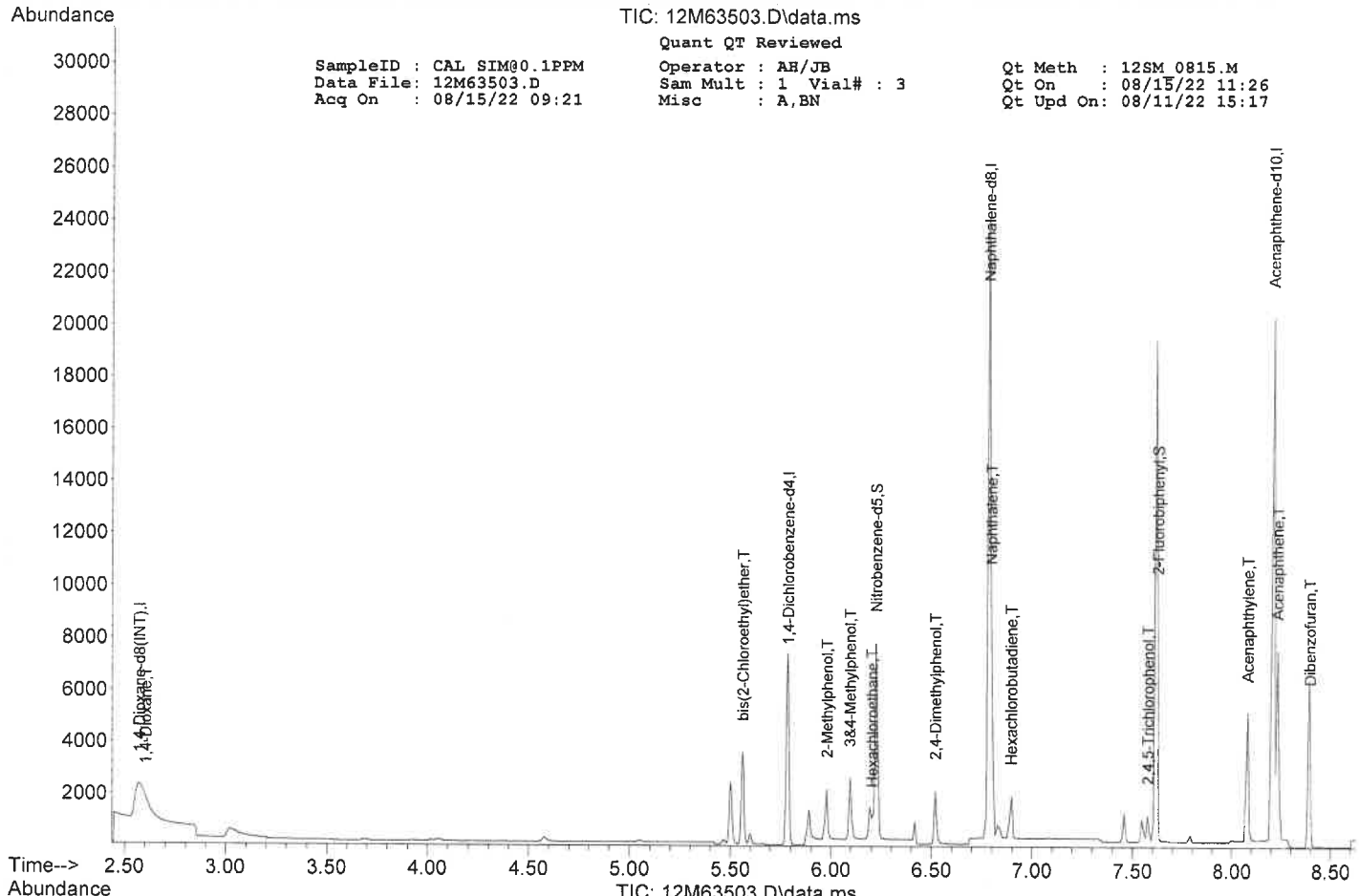
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.1PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63503.D Sam Mult : 1 Vial# : 3 Qt On : 08/15/22 11:26
Acq On : 08/15/22 09:21 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\Data\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.571	96	28527	0.40	ng	0.03
3) 1,4-Dichlorobenzene-d4	5.786	152	43663	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	187783	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	78733	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	151854	0.40	ng	0.00
31) Chrysene-d12	12.714	240	56551m	0.40	ng	0.00
36) Perylene-d12	14.326	264	33338m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	50457	0.53	ng	0.00
Spiked Amount 50.000			Recovery =	1.06%		
17) 2-Fluorobiphenyl	7.620	172	127865	0.57	ng	0.00
Spiked Amount 50.000			Recovery =	1.14%		
33) Terphenyl-d14	11.470	244	100959	0.66	ng	0.00
Spiked Amount 50.000			Recovery =	1.32%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.602	88	8665m	0.1246	ng	
5) bis(2-Chloroethyl)ether	5.563	93	18553	0.1094	ng	98
6) 2-Methylphenol	5.981	108	10103	0.0951	ng	92
7) Hexachloroethane	6.202	201	5200	0.1035	ng	45
8) 3&4-Methylphenol	6.095	108	9520m	0.0955	ng	
11) 2,4-Dimethylphenol	6.518	107	7786m	0.0850	ng	
12) Naphthalene	6.799	128	45607	0.1021	ng	97
13) Hexachlorobutadiene	6.902	225	9176	0.0924	ng	53
16) 2,4,5-Trichlorophenol	7.579	196	4599	0.0716	ng	98
18) Acenaphthylene	8.083	152	34370	0.0951	ng	95
19) Acenaphthene	8.233	153	23887	0.1023	ng	68
20) Dibenzofuran	8.394	168	39167	0.1096	ng	88
21) Fluorene	8.711	166	21295	0.1000	ng	95
24) 1,2-Diphenylhydrazine	8.850	77	16733	0.0812	ng	84
25) Hexachlorobenzene	9.255	284	9393	0.1075	ng	70
27) Phenanthrene	9.686	178	41818	0.1063	ng	96
28) Anthracene	9.735	178	28959m	0.0929	ng	
29) Carbazole	9.910	167	28327	0.0876	ng	92
30) Fluoranthene	11.013	202	30372	0.0863	ng	97
32) Pyrene	11.277	202	33171	0.0987	ng	81
34) Benzo[a]anthracene	12.695	228	11633m	0.0687	ng	
35) Chrysene	12.732	228	22045m	0.1037	ng	
37) Benzo[b]fluoranthene	13.913	252	12947m	0.0879	ng	
38) Benzo[k]fluoranthene	13.940	252	13544m	0.0837	ng	
39) Benzo[a]pyrene	14.257	252	8995m	0.0605	ng	
40) Indeno[1,2,3-cd]pyrene	15.600	276	10053m	0.0707	ng	
41) Dibenzo[a,h]anthracene	15.627	278	8508m	0.0720	ng	
42) Benzo[g,h,i]perylene	15.964	276	10557m	0.0776	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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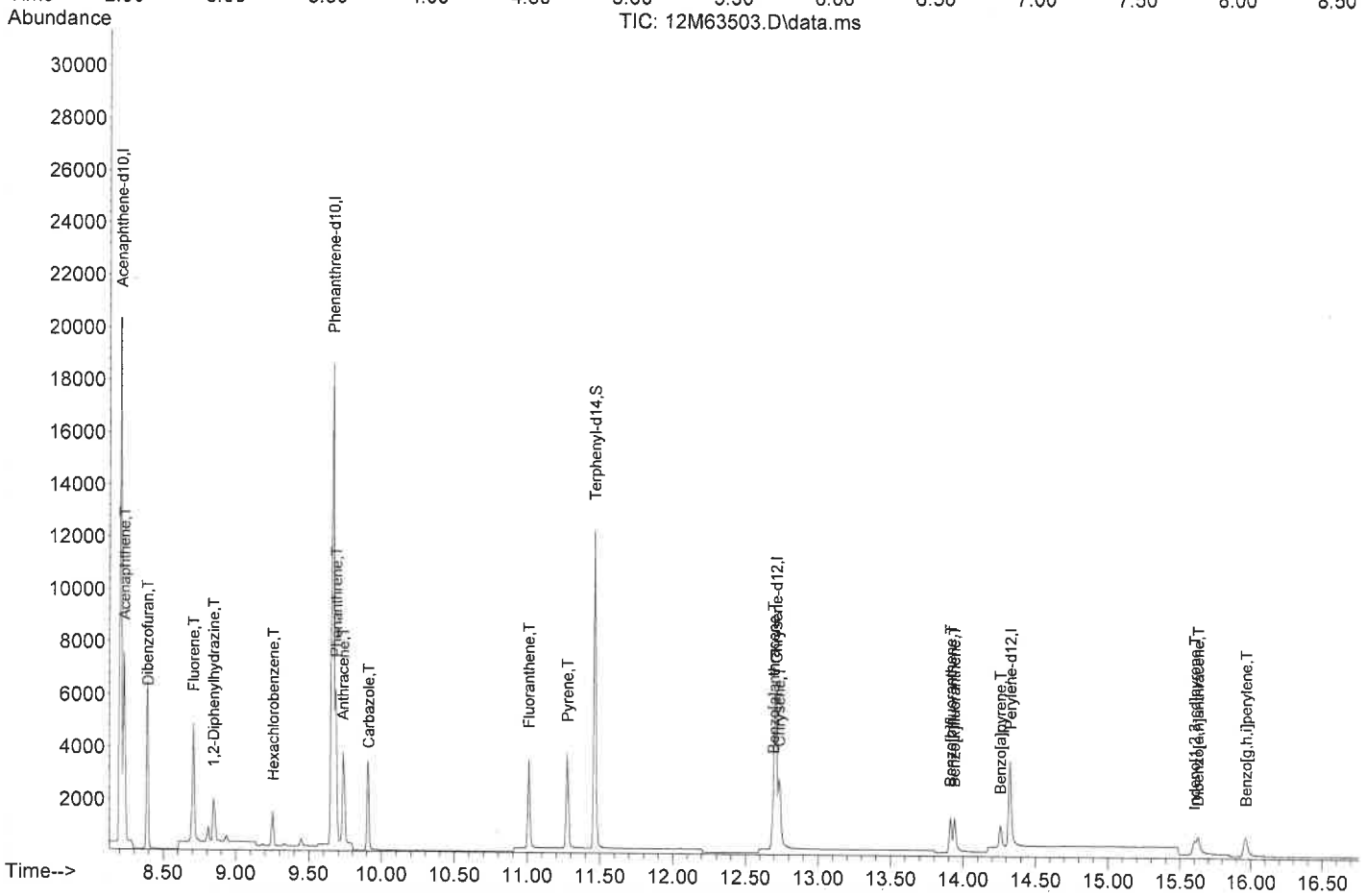
Quant QT Reviewed
SampleID : CAL SIM@0.1PPM
Data File: 12M63503.D
Acq On : 08/15/22 09:21
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:26
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63503.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

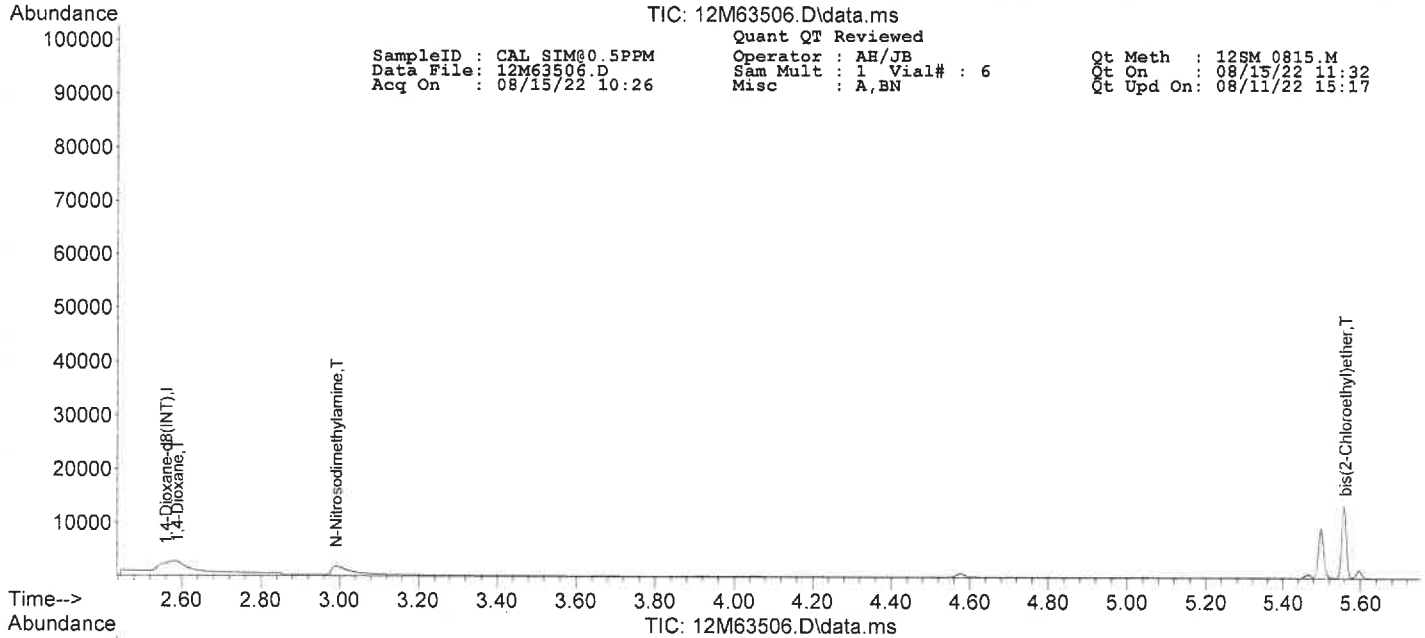
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.5PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63506.D Sam Mult : 1 Vial# : 6 Qt On : 08/15/22 11:32
Acq On : 08/15/22 10:26 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.557	96	21912	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	32533	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	141722	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	56659	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	107051	0.40	ng	0.00
31) Chrysene-d12	12.708	240	43104m	0.40	ng	0.00
36) Perylene-d12	14.319	264	23536m	0.40	ng	-0.01
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	171978	2.41	ng	0.00
Spiked Amount 50.000			Recovery =	4.82%		
17) 2-Fluorobiphenyl	7.620	172	459413	2.83	ng	0.00
Spiked Amount 50.000			Recovery =	5.66%		
33) Terphenyl-d14	11.468	244	388894	3.35	ng	0.00
Spiked Amount 50.000			Recovery =	6.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	28678m	0.5370	ng	
4) N-Nitrosodimethylamine	2.990	74	36925m	0.4586	ng	
5) bis(2-Chloroethyl)ether	5.562	93	66749	0.5280	ng	91
6) 2-Methylphenol	5.981	108	32382	0.4091	ng	86
7) Hexachloroethane	6.199	201	18278	0.4882	ng	39
8) 3&4-Methylphenol	6.095	108	31923m	0.4300	ng	
11) 2,4-Dimethylphenol	6.519	107	24971	0.3612	ng	79
12) Naphthalene	6.798	128	162474	0.4821	ng	98
13) Hexachlorobutadiene	6.902	225	30996	0.4137	ng	51
15) Hexachlorocyclopentadiene	7.462	237	19477	0.5089	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	16202	0.3507	ng	97
18) Acenaphthylene	8.083	152	119587	0.4597	ng	96
19) Acenaphthene	8.233	153	86108	0.5126	ng	72
20) Dibenzofuran	8.393	168	140834	0.5479	ng	97
21) Fluorene	8.711	166	74934	0.4892	ng	98
23) 4,6-Dinitro-2-methylph...	8.740	198	2362	0.3199	ng	88
24) 1,2-Diphenylhydrazine	8.849	77	63984	0.4402	ng	87
25) Hexachlorobenzene	9.254	284	33237	0.5395	ng	93
26) Pentachlorophenol	9.448	266	5315	0.2897	ng	93
27) Phenanthrene	9.685	178	142353	0.5134	ng	99
28) Anthracene	9.737	178	106036	0.4828	ng	97
29) Carbazole	9.909	167	104749	0.4598	ng	95
30) Fluoranthene	11.013	202	114269	0.4608	ng	100
32) Pyrene	11.276	202	123487	0.4819	ng	86
34) Benzo[a]anthracene	12.690	228	43226m	0.3351	ng	
35) Chrysene	12.736	228	84651m	0.5222	ng	
37) Benzo[b]fluoranthene	13.914	252	41827m	0.4021	ng	
38) Benzo[k]fluoranthene	13.940	252	61859m	0.5414	ng	
39) Benzo[a]pyrene	14.260	252	35682	0.3399	ng	98
40) Indeno[1,2,3-cd]pyrene	15.600	276	37270m	0.3710	ng	
41) Dibenzo[a,h]anthracene	15.627	278	31899m	0.3824	ng	
42) Benzo[g,h,i]perylene	15.965	276	40160	0.4184	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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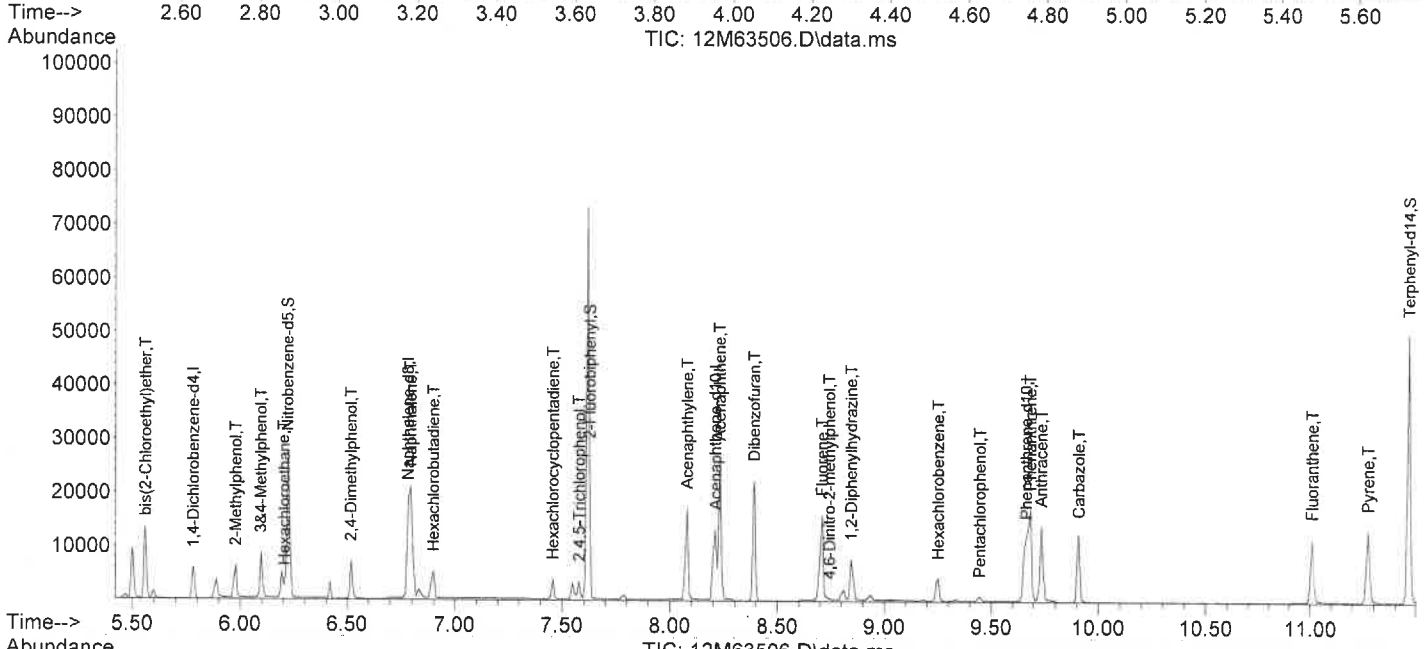
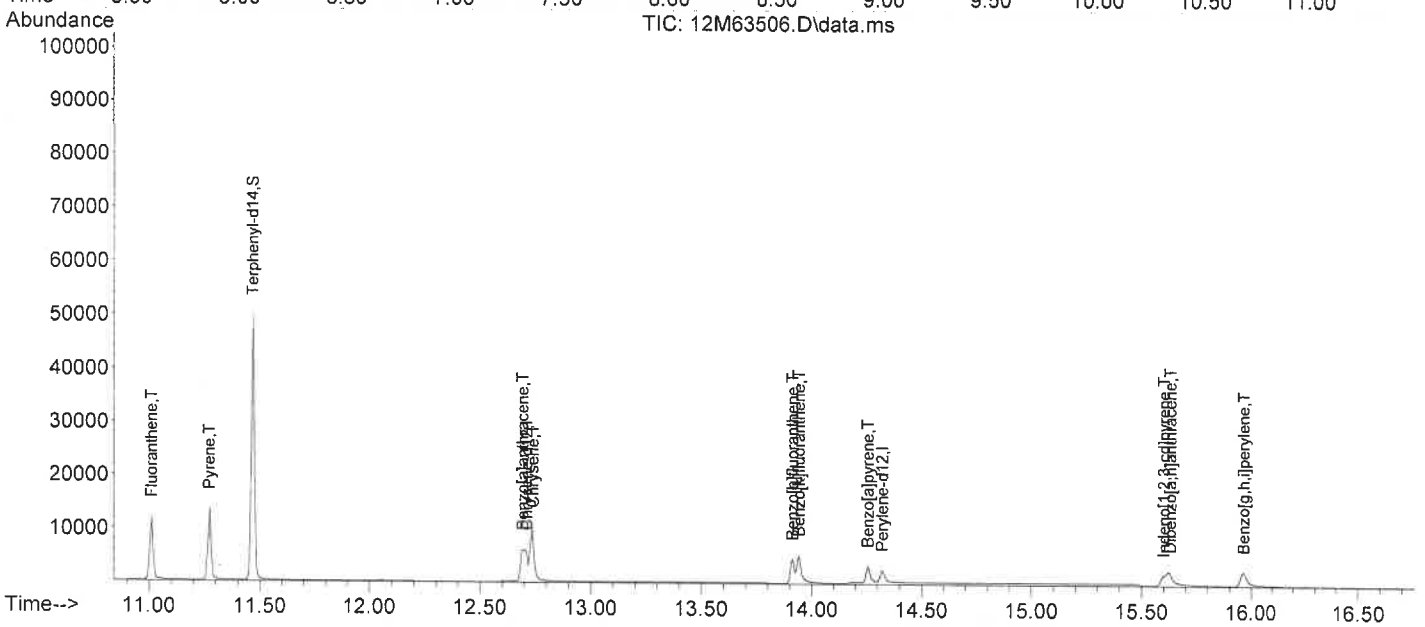
Quant QT Reviewed
SampleID : CAL SIM@0.5PPM
Data File: 12M63506.D
Acq On : 08/15/22 10:26
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:32
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63506.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63506.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@10PPM
Data File: 12M63508.D
Acq On : 08/15/22 11:09

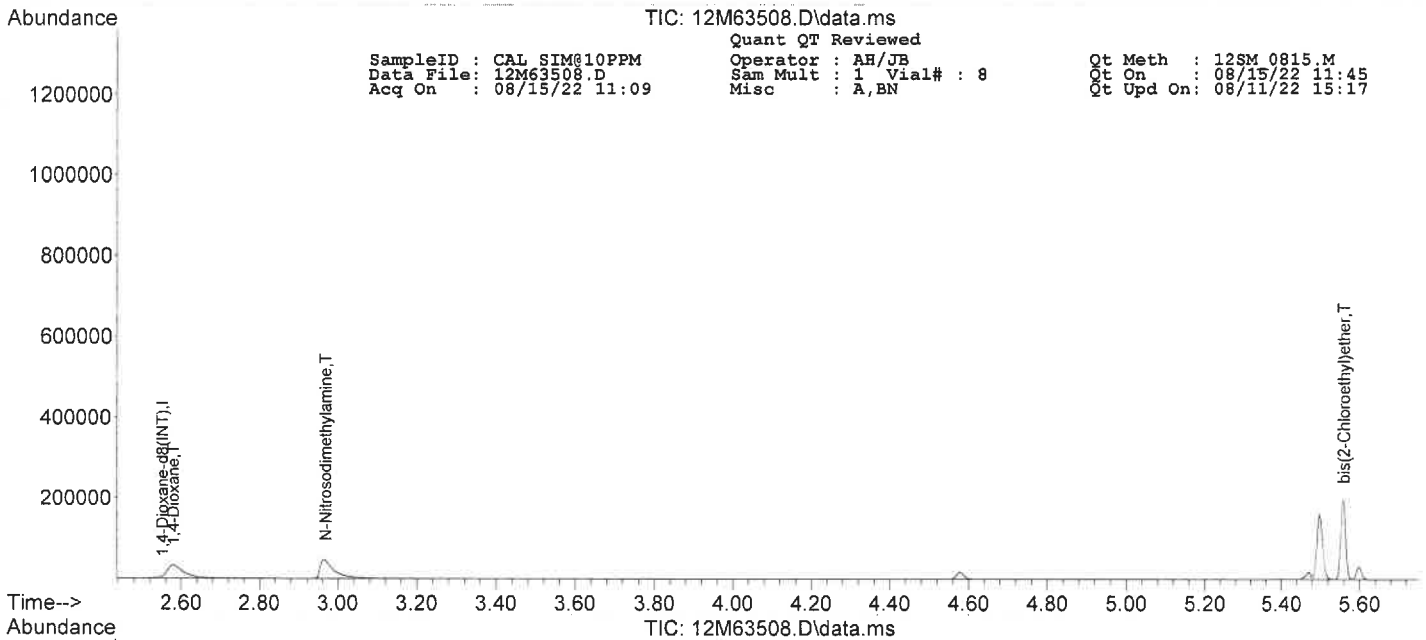
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN

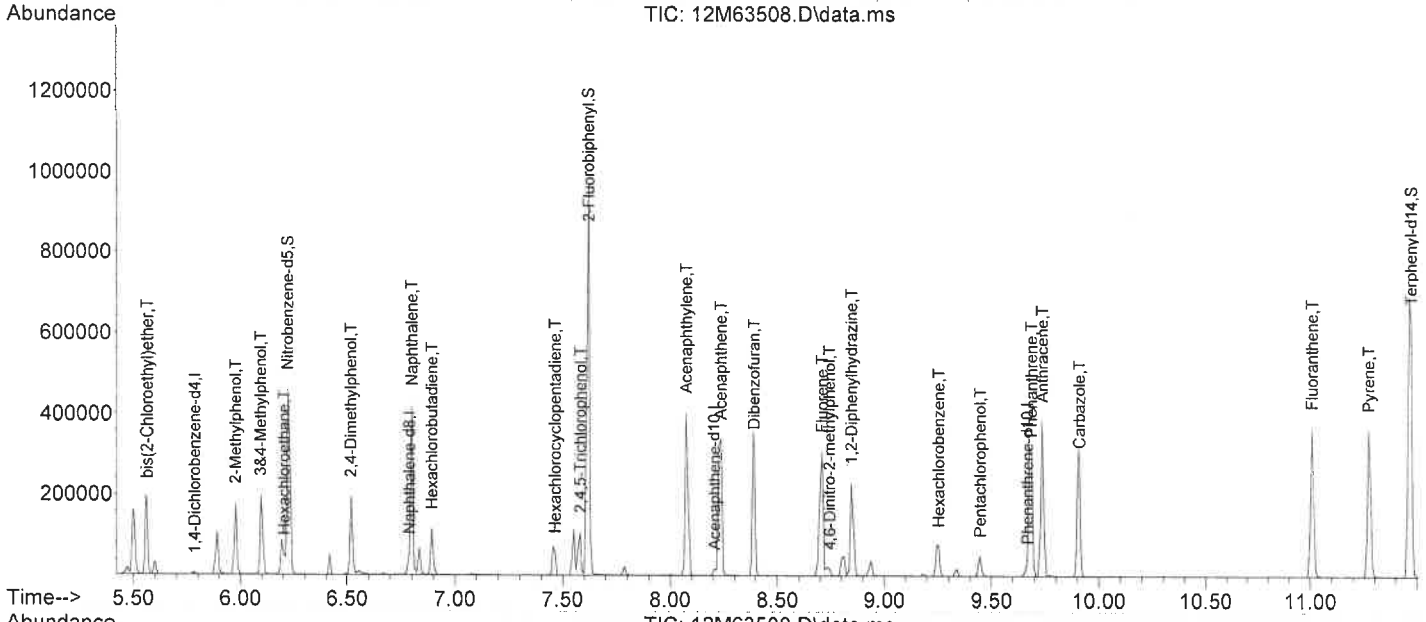
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:45
Qt Upd On: 08/11/22 15:17

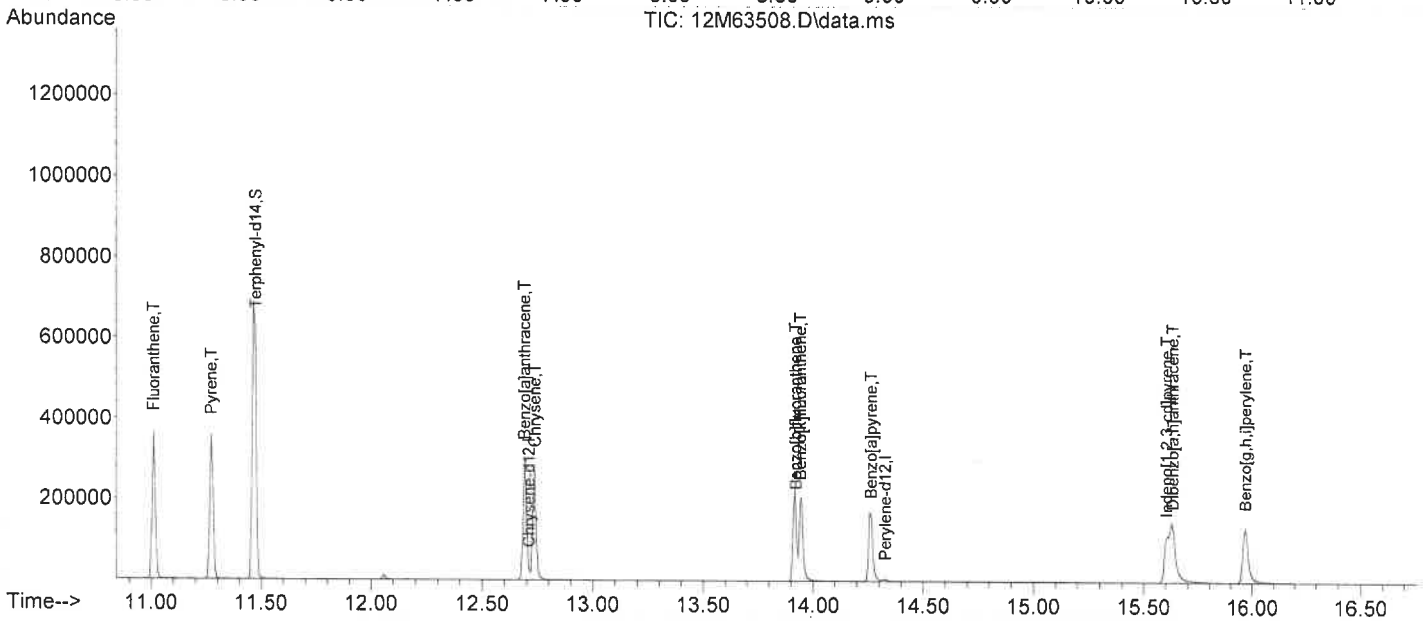
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.552	96	22624m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30081	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	137732	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	58102	0.40	ng	0.00
22) Phenanthrene-d10	9.663	188	118968	0.40	ng	0.00
31) Chrysene-d12	12.710	240	59062m	0.40	ng	0.00
36) Perylene-d12	14.329	264	37984	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	3358927	48.46	ng	0.00
Spiked Amount 50.000			Recovery = 96.92%			
17) 2-Fluorobiphenyl	7.622	172	6280477	37.68	ng	0.00
Spiked Amount 50.000			Recovery = 75.36%			
33) Terphenyl-d14	11.471	244	6591097	48.35	ng	0.00
Spiked Amount 50.000			Recovery = 96.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.583	88	545372	9.8917	ng	92
4) N-Nitrosodimethylamine	2.967	74	761579	10.2285	ng	80
5) bis(2-Chloroethyl)ether	5.562	93	978117	8.3679	ng	94
6) 2-Methylphenol	5.981	108	800304	10.9339	ng	88
7) Hexachloroethane	6.201	201	347528	10.0381	ng	42
8) 3&4-Methylphenol	6.095	108	802137m	11.6845	ng	
11) 2,4-Dimethylphenol	6.519	107	665705	9.9078	ng	83
12) Naphthalene	6.802	128	2944400	8.9894	ng	89
13) Hexachlorobutadiene	6.896	225	559152	7.6789	ng	83
15) Hexachlorocyclopentadiene	7.462	237	477996	12.1797	ng	72
16) 2,4,5-Trichlorophenol	7.581	196	457515m	9.6578	ng	
18) Acenaphthylene	8.080	152	2860880	10.7237	ng	89
19) Acenaphthene	8.233	153	1647433	9.5637	ng	97
20) Dibenzofuran	8.393	168	2256622	8.5603	ng	94
21) Fluorene	8.712	166	1641416	10.4500	ng	93
23) 4,6-Dinitro-2-methylph...	8.746	198	170126	20.7273	ng	82
24) 1,2-Diphenylhydrazine	8.851	77	1892893	11.7191	ng	89
25) Hexachlorobenzene	9.254	284	663270	9.6870	ng	97
26) Pentachlorophenol	9.449	266	291687	12.0047	ng	99
27) Phenanthrene	9.683	178	2967158	9.6289	ng	97
28) Anthracene	9.739	178	2664491	10.9156	ng	98
29) Carbazole	9.909	167	2598452	10.2626	ng	94
30) Fluoranthene	11.012	202	3168575	11.4970	ng	96
32) Pyrene	11.276	202	3340958	9.5156	ng	77
34) Benzo[a]anthracene	12.695	228	2157953	12.2106	ng	99
35) Chrysene	12.740	228	2043660	9.2005	ng	98
37) Benzo[b]fluoranthene	13.918	252	1788625	10.6542	ng	89
38) Benzo[k]fluoranthene	13.942	252	1919648m	10.4098	ng	
39) Benzo[a]pyrene	14.264	252	1824410	10.7679	ng	88
40) Indeno[1,2,3-cd]pyrene	15.609	276	1879881	11.5964	ng	95
41) Dibenzo[a,h]anthracene	15.634	278	1482088m	11.0098	ng	
42) Benzo[g,h,i]perylene	15.971	276	1632373	10.5371	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63508.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@10PPM
Data File: 12M63508.D
Acq On : 08/15/22 11:09
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:45
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63508.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63508.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14

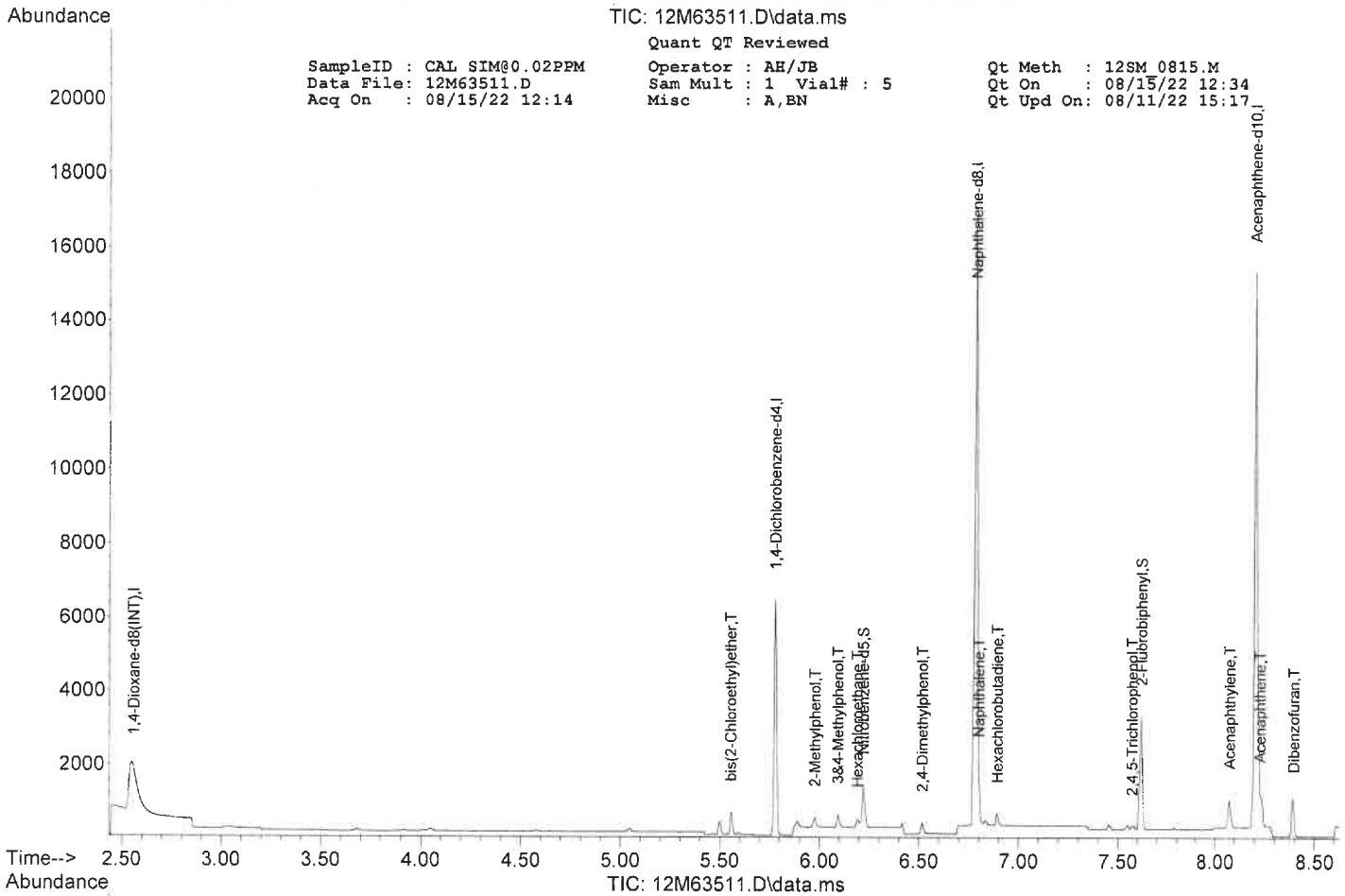
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	22735	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	35102	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	144080	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	57571	0.40	ng	0.00
22) Phenanthrene-d10	9.662	188	116007	0.40	ng	0.00
31) Chrysene-d12	12.710	240	33801m	0.40	ng	0.00
36) Perylene-d12	14.328	264	19336m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	7433	0.10	ng	0.00
Spiked Amount 50.000			Recovery = 0.20%			
17) 2-Fluorobiphenyl	7.622	172	20355	0.12	ng	0.00
Spiked Amount 50.000			Recovery = 0.24%			
33) Terphenyl-d14	11.468	244	11613	0.13	ng	0.00
Spiked Amount 50.000			Recovery = 0.26%			
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.557	93	3093m	0.0227	ng	
6) 2-Methylphenol	5.981	108	1424	0.0167	ng	90
7) Hexachloroethane	6.193	201	929m	0.0230	ng	
8) 3&4-Methylphenol	6.095	108	1558m	0.0195	ng	
11) 2,4-Dimethylphenol	6.519	107	1092	0.0155	ng	83
12) Naphthalene	6.799	128	8500m	0.0248	ng	
13) Hexachlorobutadiene	6.896	225	1565	0.0205	ng	84
16) 2,4,5-Trichlorophenol	7.571	196	786m	0.0168	ng	
18) Acenaphthylene	8.075	152	5439m	0.0206	ng	
19) Acenaphthene	8.226	153	3849m	0.0226	ng	
20) Dibenzofuran	8.393	168	6574	0.0252	ng	92
21) Fluorene	8.710	166	3084m	0.0198	ng	
24) 1,2-Diphenylhydrazine	8.850	77	2500	0.0159	ng	97
25) Hexachlorobenzene	9.254	284	1620	0.0243	ng	98
27) Phenanthrene	9.682	178	6893	0.0229	ng	99
28) Anthracene	9.739	178	4384	0.0184	ng	99
29) Carbazole	9.909	167	3955	0.0160	ng	94
30) Fluoranthene	11.012	202	4357	0.0162	ng	96
32) Pyrene	11.275	202	4715	0.0235	ng	83
34) Benzo[a]anthracene	12.692	228	1870m	0.0185	ng	
35) Chrysene	12.737	228	3143m	0.0247	ng	
37) Benzo[b]fluoranthene	13.915	252	1336m	0.0156	ng	
38) Benzo[k]fluoranthene	13.942	252	1635m	0.0174	ng	
39) Benzo[a]pyrene	14.258	252	1425m	0.0165	ng	
40) Indeno[1,2,3-cd]pyrene	15.601	276	1367m	0.0166	ng	
41) Dibenzo[a,h]anthracene	15.628	278	1105m	0.0161	ng	
42) Benzo[g,h,i]perylene	15.964	276	1620m	0.0205	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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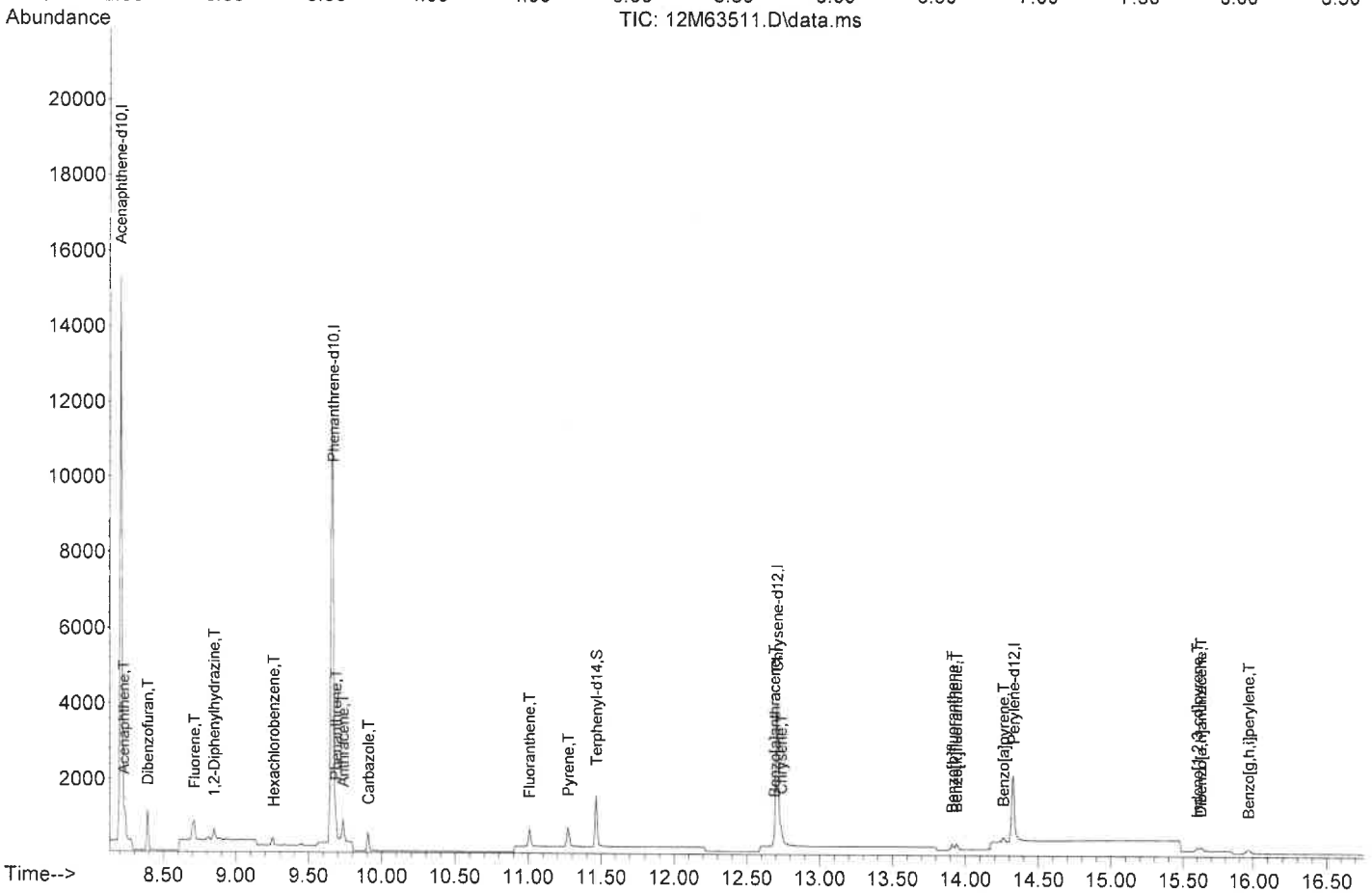
Quant QT Reviewed
SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63511.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

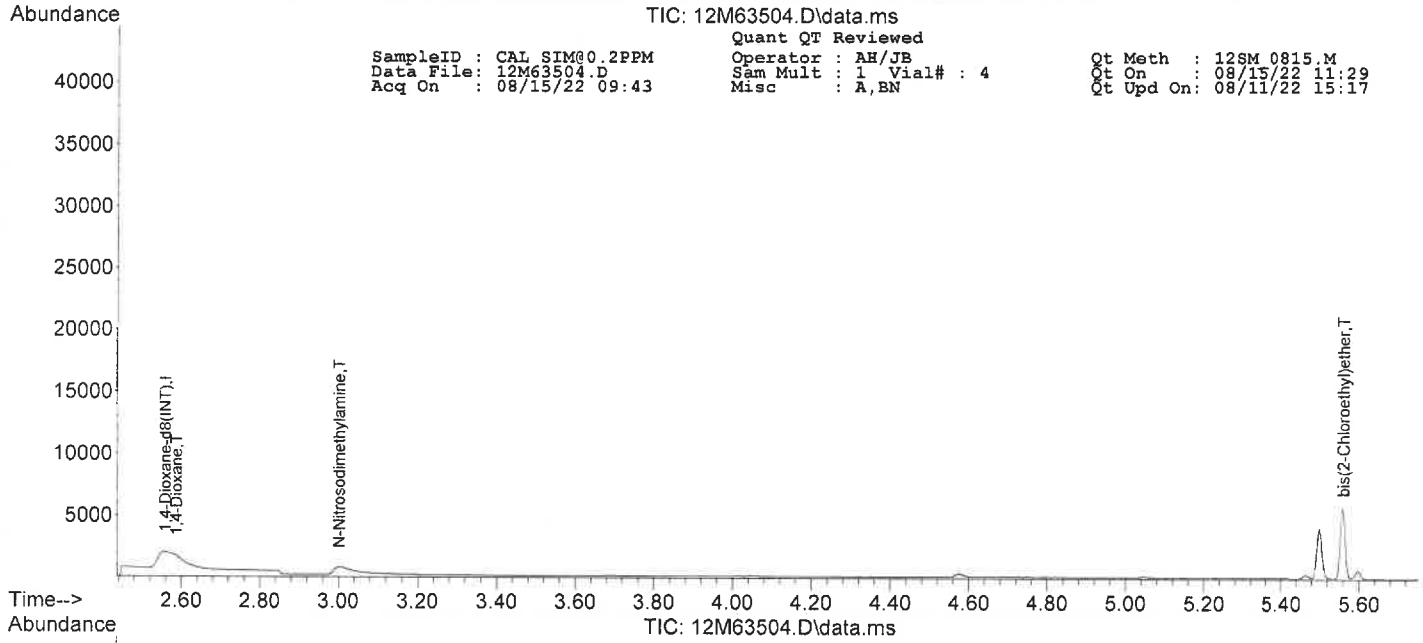
Quantitation Report (QT Reviewed)

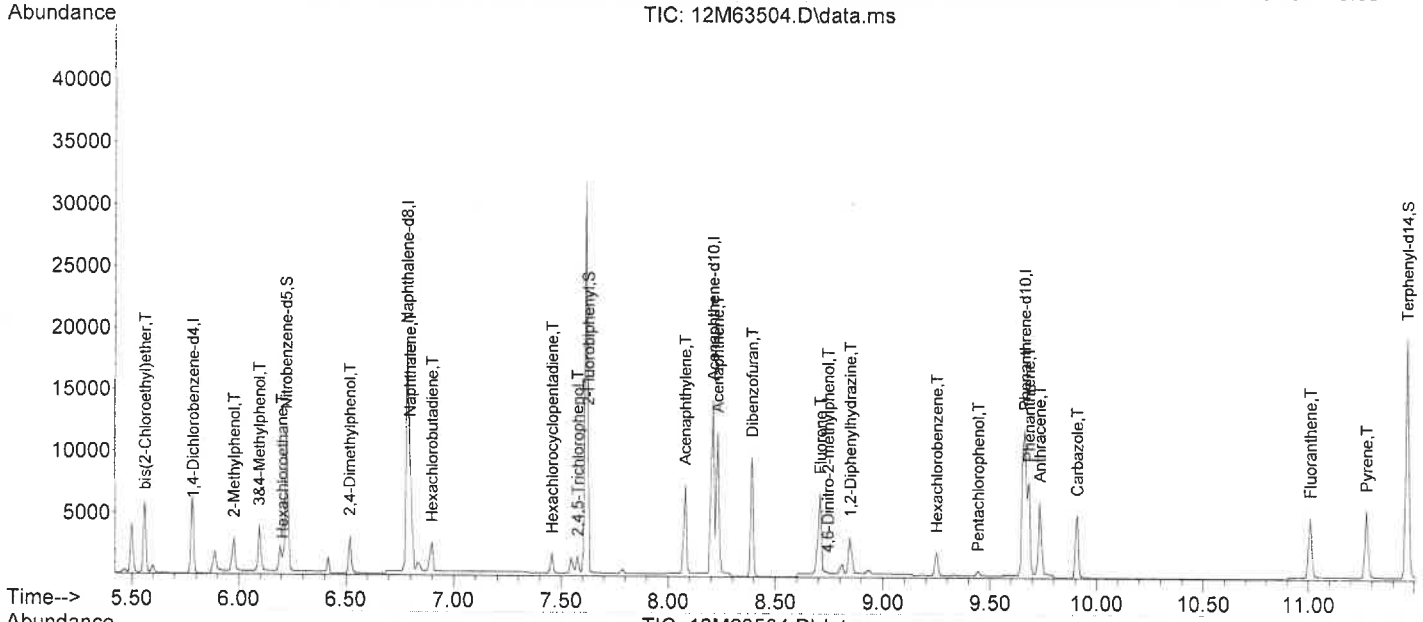
SampleID : CAL SIM@0.2PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63504.D Sam Mult : 1 Vial# : 4 Qt On : 08/15/22 11:29
Acq On : 08/15/22 09:43 Misc : A,BN Qt Upd On: 08/11/22 15:17

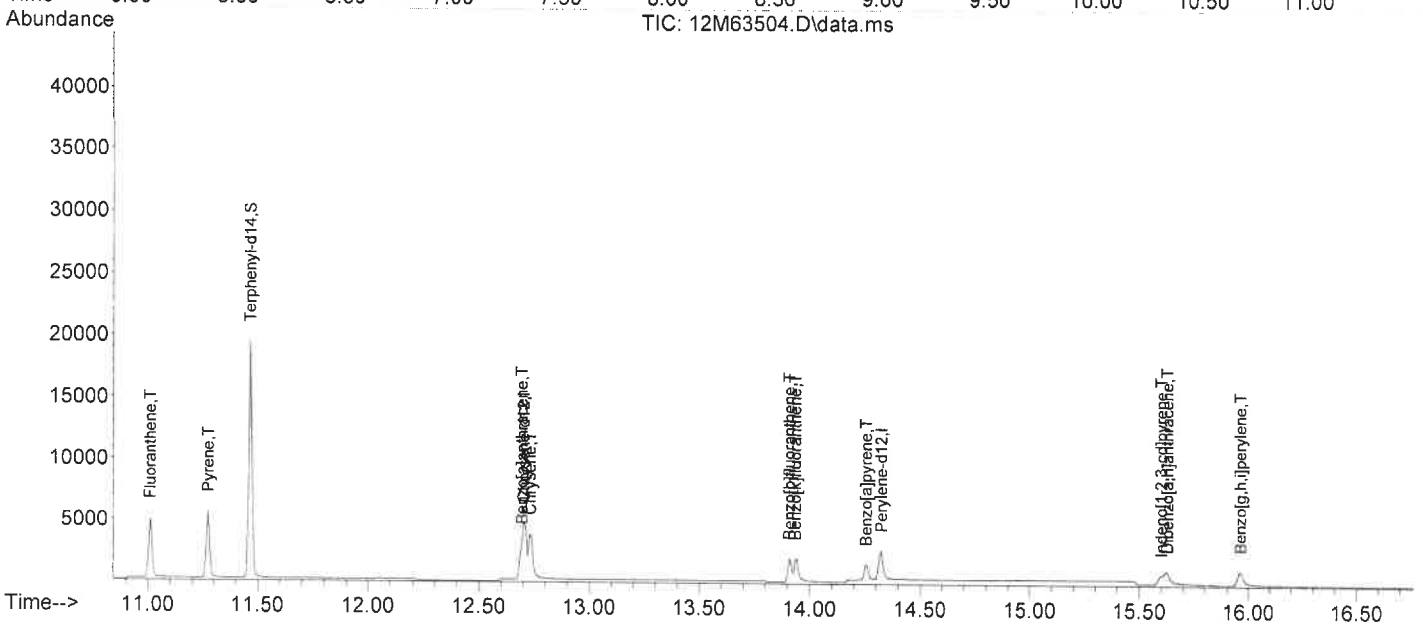
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.558	96	22395	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	34068	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145628	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	60159	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	113568	0.40	ng	0.00
31) Chrysene-d12	12.703	240	41332m	0.40	ng	0.00
36) Perylene-d12	14.325	264	23108	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	72641	0.99	ng	0.00
Spiked Amount 50.000			Recovery = 1.98%			
17) 2-Fluorobiphenyl	7.620	172	199661	1.16	ng	0.00
Spiked Amount 50.000			Recovery = 2.32%			
33) Terphenyl-d14	11.468	244	156698	1.40	ng	0.00
Spiked Amount 50.000			Recovery = 2.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	13471m	0.2468	ng	
4) N-Nitrosodimethylamine	3.001	74	15652m	0.1856	ng	
5) bis(2-Chloroethyl)ether	5.562	93	28478	0.2151	ng	92
6) 2-Methylphenol	5.981	108	14644	0.1767	ng	88
7) Hexachloroethane	6.200	201	7985	0.2037	ng	38
8) 3&4-Methylphenol	6.095	108	14143m	0.1819	ng	
11) 2,4-Dimethylphenol	6.519	107	10655	0.1500	ng	83
12) Naphthalene	6.798	128	69427	0.2005	ng	97
13) Hexachlorobutadiene	6.902	225	13838	0.1797	ng	53
15) Hexachlorocyclopentadiene	7.462	237	9365	0.2305	ng	97
16) 2,4,5-Trichlorophenol	7.579	196	6617	0.1349	ng	100
18) Acenaphthylene	8.083	152	49815	0.1803	ng	96
19) Acenaphthene	8.233	153	37939	0.2127	ng	71
20) Dibenzofuran	8.393	168	62148	0.2277	ng	97
21) Fluorene	8.708	166	29803m	0.1833	ng	
23) 4,6-Dinitro-2-methylph...	8.742	198	1079m	0.1378	ng	
24) 1,2-Diphenylhydrazine	8.848	77	25389	0.1647	ng	89
25) Hexachlorobenzene	9.254	284	14468	0.2213	ng	88
26) Pentachlorophenol	9.445	266	2532m	0.1304	ng	
27) Phenanthrene	9.685	178	61562	0.2093	ng	98
28) Anthracene	9.735	178	43436m	0.1864	ng	
29) Carbazole	9.910	167	44655	0.1848	ng	99
30) Fluoranthene	11.013	202	48371	0.1839	ng	99
32) Pyrene	11.276	202	50285	0.2047	ng	85
34) Benzo[a]anthracene	12.693	228	19683m	0.1592	ng	
35) Chrysene	12.730	228	32932m	0.2119	ng	
37) Benzo[b]fluoranthene	13.911	252	18830m	0.1844	ng	
38) Benzo[k]fluoranthene	13.938	252	20842m	0.1858	ng	
39) Benzo[a]pyrene	14.255	252	14371m	0.1394	ng	
40) Indeno[1,2,3-cd]pyrene	15.598	276	14883m	0.1509	ng	
41) Dibenzo[a,h]anthracene	15.625	278	12155m	0.1484	ng	
42) Benzo[g,h,i]perylene	15.962	276	16227m	0.1722	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63504.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.2PPM
Data File: 12M63504.D
Acq On : 08/15/22 09:43
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:29
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63504.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63504.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48

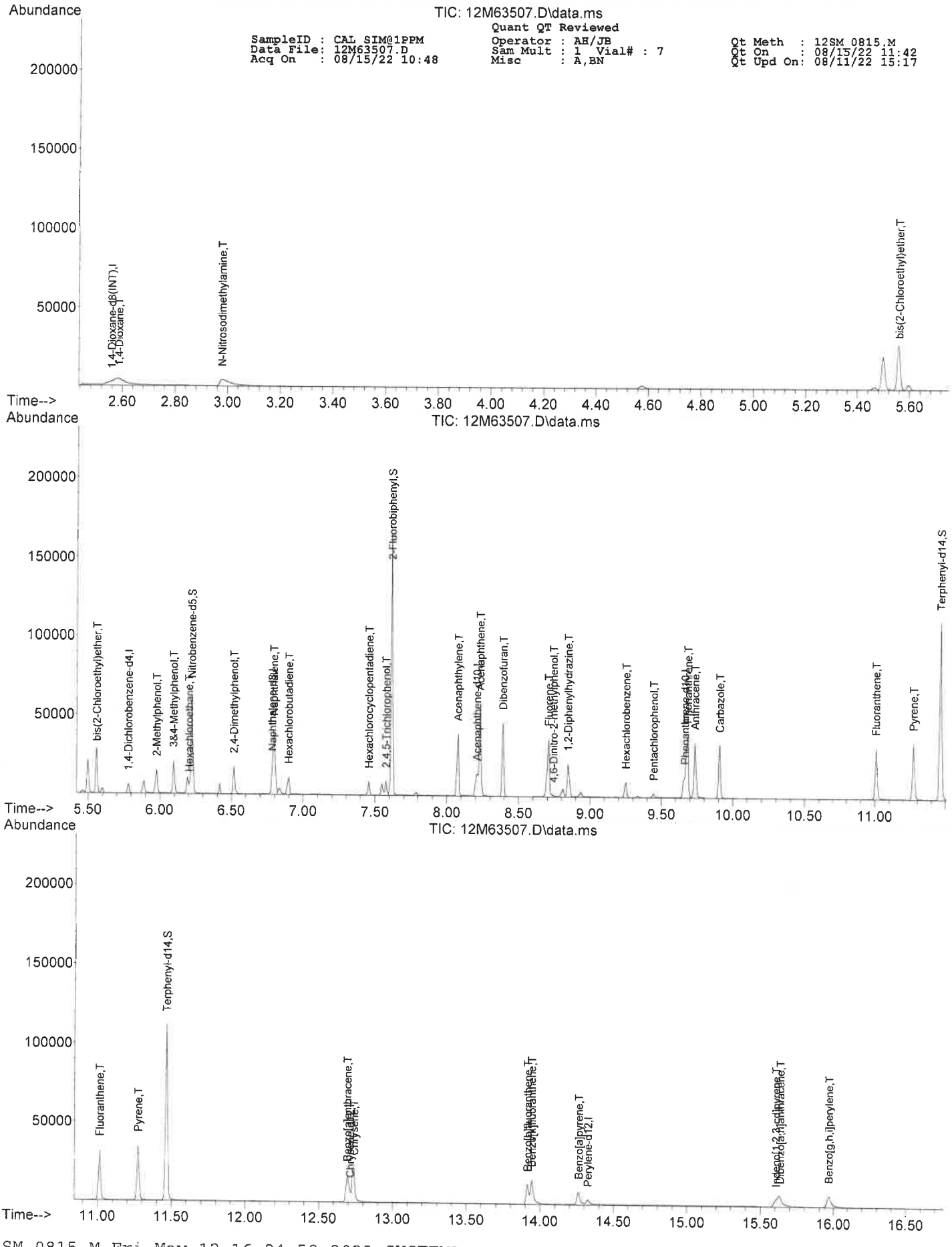
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	23130	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	33690	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	147512	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62101	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	115760	0.40	ng	0.00
31) Chrysene-d12	12.712	240	54007m	0.40	ng	0.00
36) Perylene-d12	14.324	264	29400m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	400613	5.40	ng	0.00
Spiked Amount 50.000			Recovery = 10.80%			
17) 2-Fluorobiphenyl	7.619	172	998273	5.60	ng	0.00
Spiked Amount 50.000			Recovery = 11.20%			
33) Terphenyl-d14	11.468	244	890316	6.18	ng	0.00
Spiked Amount 50.000			Recovery = 12.36%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	65218m	1.1570	ng	
4) N-Nitrosodimethylamine	2.979	74	82961m	0.9949	ng	
5) bis(2-Chloroethyl)ether	5.561	93	140924	1.0765	ng	89
6) 2-Methylphenol	5.981	108	77150	0.9411	ng	87
7) Hexachloroethane	6.200	201	39634	1.0222	ng	39
8) 3&4-Methylphenol	6.095	108	77897m	1.0132	ng	
11) 2,4-Dimethylphenol	6.519	107	60463	0.8402	ng	81
12) Naphthalene	6.798	128	339962	0.9691	ng	97
13) Hexachlorobutadiene	6.902	225	66607	0.8541	ng	52
15) Hexachlorocyclopentadiene	7.462	237	42225	1.0067	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	44201	0.8730	ng	98
18) Acenaphthylene	8.083	152	279891	0.9816	ng	97
19) Acenaphthene	8.233	153	192327	1.0446	ng	75
20) Dibenzofuran	8.393	168	301354	1.0696	ng	96
21) Fluorene	8.710	166	171975	1.0244	ng	98
23) 4,6-Dinitro-2-methylph...	8.742	198	6463	0.8092	ng	84
24) 1,2-Diphenylhydrazine	8.848	77	171842	1.0934	ng	87
25) Hexachlorobenzene	9.254	284	73775	1.1073	ng	85
26) Pentachlorophenol	9.445	266	15274m	0.7640	ng	
27) Phenanthrene	9.684	178	326747	1.0897	ng	99
28) Anthracene	9.737	178	256614	1.0804	ng	96
29) Carbazole	9.909	167	265660	1.0783	ng	95
30) Fluoranthene	11.013	202	281851	1.0510	ng	100
32) Pyrene	11.276	202	310077	0.9658	ng	83
34) Benzo[a]anthracene	12.694	228	137613m	0.8516	ng	
35) Chrysene	12.739	228	207812m	1.0231	ng	
37) Benzo[b]fluoranthene	13.917	252	113161	0.8709	ng	94
38) Benzo[k]fluoranthene	13.946	252	182957	1.2818	ng	98
39) Benzo[a]pyrene	14.264	252	101956	0.7775	ng	95
40) Indeno[1,2,3-cd]pyrene	15.605	276	103772m	0.8270	ng	
41) Dibenzo[a,h]anthracene	15.632	278	88610m	0.8504	ng	
42) Benzo[g,h,i]perylene	15.969	276	109829	0.9160	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63507.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
TIC: 12M63507.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->
TIC: 12M63507.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

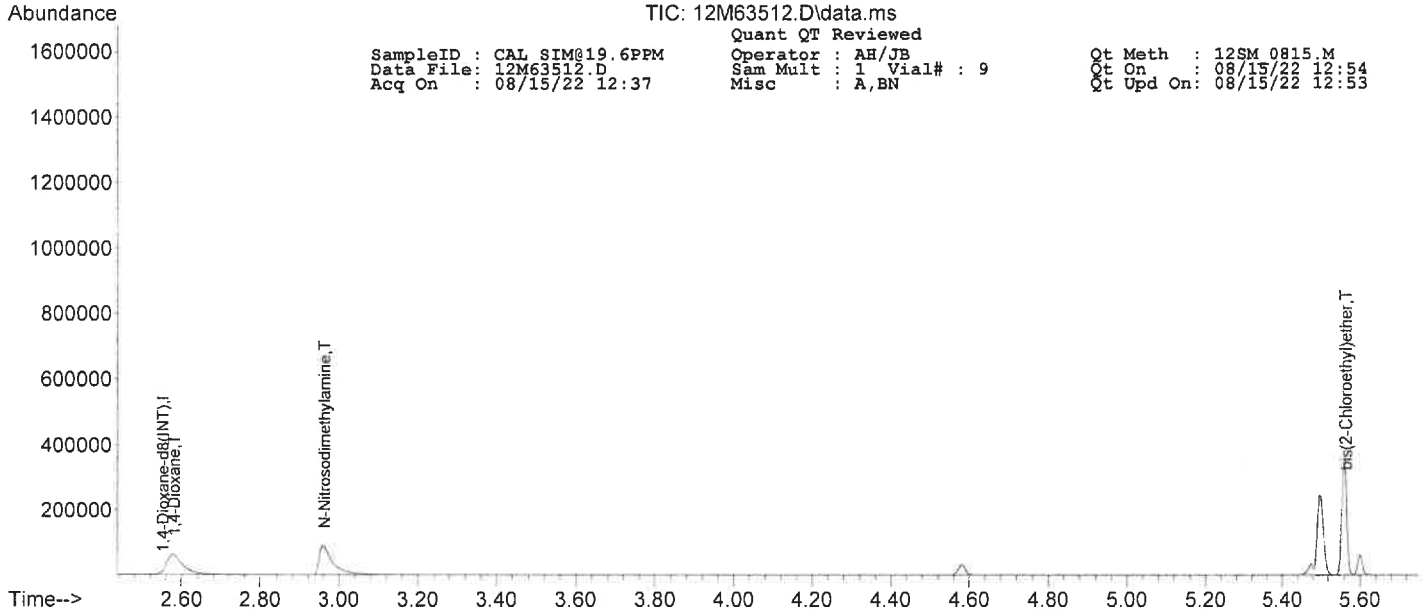
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@19.6PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63512.D Sam Mult : 1 Vial# : 9 Qt On : 08/15/22 12:54
Acq On : 08/15/22 12:37 Misc : A,BN Qt Upd On: 08/15/22 12:53

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.551	96	23096	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	32792	0.40	ng	0.00
9) Naphthalene-d8	6.787	136	147184	0.40	ng	0.00
14) Acenaphthene-d10	8.213	164	70294	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	125651	0.40	ng	0.00
31) Chrysene-d12	12.714	240	60522m	0.40	ng	0.00
36) Perylene-d12	14.331	264	43812	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.227	82	6121125	83.25	ng	0.00
Spiked Amount 50.000			Recovery = 166.50%			
17) 2-Fluorobiphenyl	7.624	172	10509948	52.87	ng	0.00
Spiked Amount 50.000			Recovery = 105.74%			
33) Terphenyl-d14	11.474	244	10859849	96.91	ng	0.00
Spiked Amount 50.000			Recovery = 193.82%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.582	88	1043453	16.9129	ng	95
4) N-Nitrosodimethylamine	2.962	74	1431244	18.2166	ng	79
5) bis(2-Chloroethyl)ether	5.563	93	1722008	13.7344	ng	84
6) 2-Methylphenol	5.981	108	1487862	19.7315	ng	89
7) Hexachloroethane	6.203	201	668601	17.4688	ng	44
8) 3&4-Methylphenol	6.106	108	1516567	19.9866	ng	98
11) 2,4-Dimethylphenol	6.519	107	1246893	20.6877	ng	86
12) Naphthalene	6.800	128	4888493	14.5856	ng	100
13) Hexachlorobutadiene	6.902	225	1062315	16.1379	ng	51
15) Hexachlorocyclopentadiene	7.463	237	993221	19.0473	ng	97
16) 2,4,5-Trichlorophenol	7.575	196	1018816m	20.3530	ng	
18) Acenaphthylene	8.084	152	5051879	16.3711	ng	97
19) Acenaphthene	8.234	153	2933183	14.2904	ng	77
20) Dibenzofuran	8.395	168	4062257	12.7045	ng	95
21) Fluorene	8.711	166	2923284	15.9339	ng	99
23) 4,6-Dinitro-2-methylph...	8.745	198	459973	36.8116	ng	94
24) 1,2-Diphenylhydrazine	8.856	77	3450319	20.8875	ng	32
25) Hexachlorobenzene	9.255	284	1214333	16.0152	ng	67
26) Pentachlorophenol	9.448	266	630346	19.7157	ng	87
27) Phenanthrene	9.686	178	5174712	15.6690	ng	97
28) Anthracene	9.738	178	4854887	18.8463	ng	96
29) Carbazole	9.911	167	4691483	18.4921	ng	95
30) Fluoranthene	11.014	202	5732831	20.1150	ng	94
32) Pyrene	11.277	202	5998286	17.0290	ng	76
34) Benzo[a]anthracene	12.697	228	4002347	23.9622	ng	97
35) Chrysene	12.742	228	3645846	15.9289	ng	98
37) Benzo[b]fluoranthene	13.921	252	3380593	19.2249	ng	94
38) Benzo[k]fluoranthene	13.951	252	3524794	16.5098	ng	94
39) Benzo[a]pyrene	14.268	252	3537717	18.8999	ng	91
40) Indeno[1,2,3-cd]pyrene	15.614	276	3746127	22.5305	ng	97
41) Dibenzo[a,h]anthracene	15.639	278	2916675	21.2098	ng	94
42) Benzo[g,h,i]perylene	15.976	276	3167785	19.1954	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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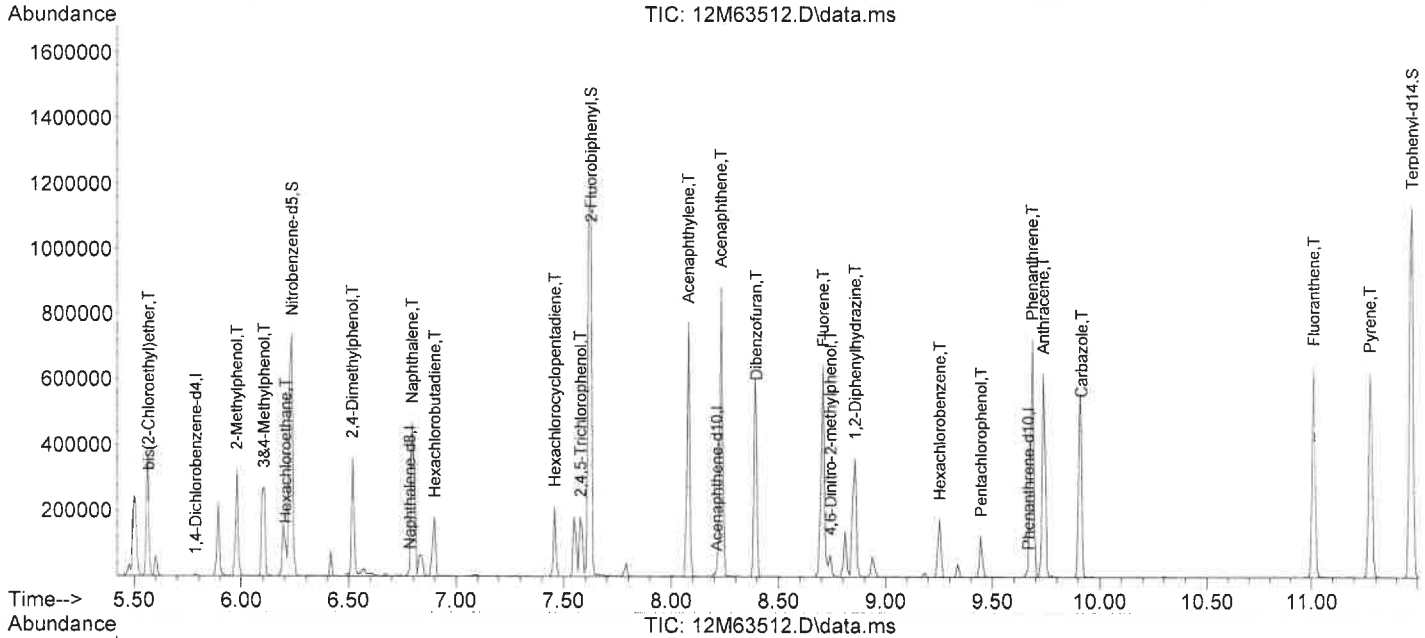
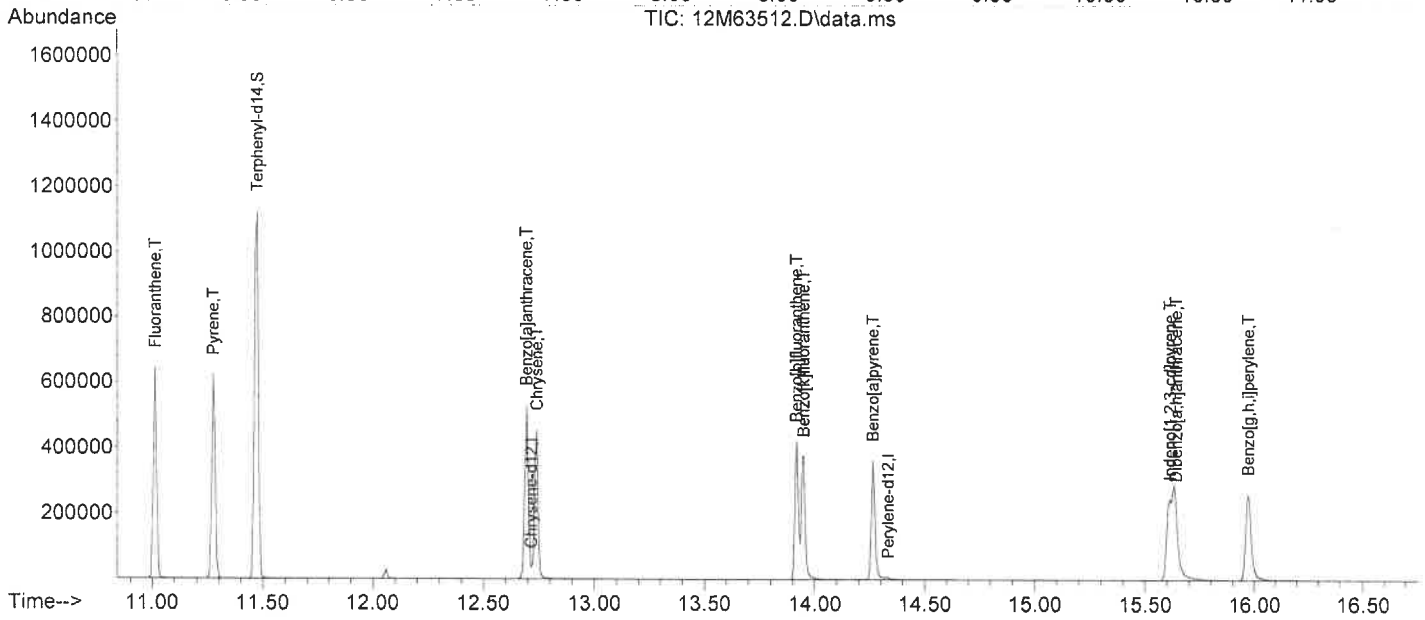
Quant QT Reviewed
SampleID : CAL SIM@19.6PPM
Data File: 12M63512.D
Acq On : 08/15/22 12:37
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:54
Qt Upd On: 08/15/22 12:53
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63512.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63512.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,T
Chrysene-d12,I
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M63592.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 8/19/2022 9:09:00 A **Method:** EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	4.63		**		1.069			
1,4-Dichlorobenzene-d4	1	0	I	5.78	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.97	5.55	5	20	0.01	0.958	1.064	11.06	
bis(2-Chloroethyl)ether	1	0		5.56	4.57		**		1.527			
2-Methylphenol	1	0		5.98	5.98	5	20		0.918	1.099	19.67	
Hexachloroethane	1	0		6.20	5.09	5	20	0.3	0.467	0.475	1.74	
3&4-Methylphenol	1	0		5.98	5.94	5	20		0.926	1.100	18.78	
Naphthalene-d8	1	0	I	6.79	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	25.97		**		0.201			
2,4-Dimethylphenol	1	0		6.52	5.63	5	20		0.166	0.186	12.53	
Naphthalene	1	0		6.80	4.80	5	20	0.7	0.914	0.877	4.02	
Hexachlorobutadiene	1	0		6.90	4.50	5	20	0.01	0.179	0.161	10.05	
Acenaphthene-d10	1	0	I	8.21	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.46	4.82	5	20		0.296	0.285	3.53	
2,4,5-Trichlorophenol	1	0		7.58	4.72		**		0.275			
2-Fluorobiphenyl	1	0	S	7.62	23.20		**		1.131			
Acenaphthylene	1	0		8.08	5.21	5	20	0.9	1.756	1.829	4.13	
Acenaphthene	1	0		8.23	4.77	5	20	0.9	1.170	1.117	4.54	
Dibenzofuran	1	0		8.39	4.59	5	20		1.821	1.557	8.26	
Fluorene	1	0		8.71	5.17	5	20	0.9	1.046	1.081	3.33	
Phenanthrene-d10	1	0	I	9.66	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.74	5.51	5	20	0.01	0.040	0.050	10.24	
1,2-Diphenylhydrazine	1	0		8.85	4.55	5	20		0.528	0.603	8.99	
Hexachlorobenzene	1	0		9.25	4.57	5	20	0.1	0.242	0.221	8.52	
Pentachlorophenol	1	0		9.45	5.67	5	20	0.05	0.071	0.105	13.46	
Phenanthrene	1	0		9.68	4.79	5	20	0.7	1.053	1.008	4.25	
Anthracene	1	0		9.74	5.42	5	20	0.7	0.821	0.890	8.33	
Carbazole	1	0		9.91	5.53	5	20	0.01	0.808	0.894	10.58	
Fluoranthene	1	0		11.01	6.00	5	20	0.6	0.910	1.091	19.90	
Chrysene-d12	1	0	I	12.70	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.27	4.55	5	20	0.6	2.329	2.118	9.05	
Terphenyl-d14	1	0	S	11.47	22.62		**		1.208			
Benzo[a]anthracene	1	0		12.69	4.80	5	20	0.8	1.104	1.377	3.99	
Chrysene	1	0		12.74	4.42	5	20	0.7	1.514	1.339	11.56	
Perylene-d12	1	0	I	14.32	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.91	5.21	5	20	0.7	1.603	1.670	4.14	
Benzo[k]fluoranthene	1	0		13.94	4.79	5	20	0.7	1.936	1.856	4.14	
Benzo[a]pyrene	1	0		14.26	4.87	5	20	0.7	1.471	1.663	2.65	
Indeno[1,2,3-cd]pyrene	1	0		15.60	4.60	5	20	0.5	1.517	1.676	8.05	
Dibenzo[a,h]anthracene	1	0		15.63	4.37	5	20	0.4	1.245	1.309	12.58	
Benzo[g,h,i]perylene	1	0		15.97	4.88	5	20	0.5	1.507	1.472	2.35	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09

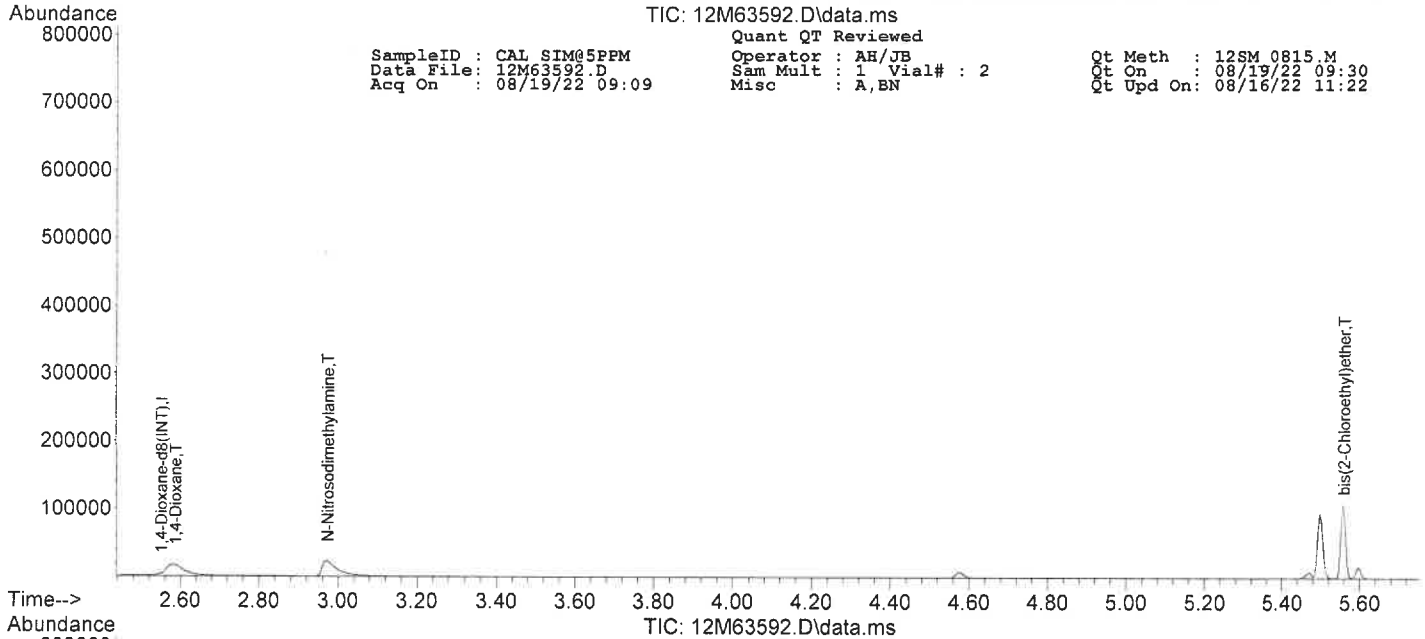
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

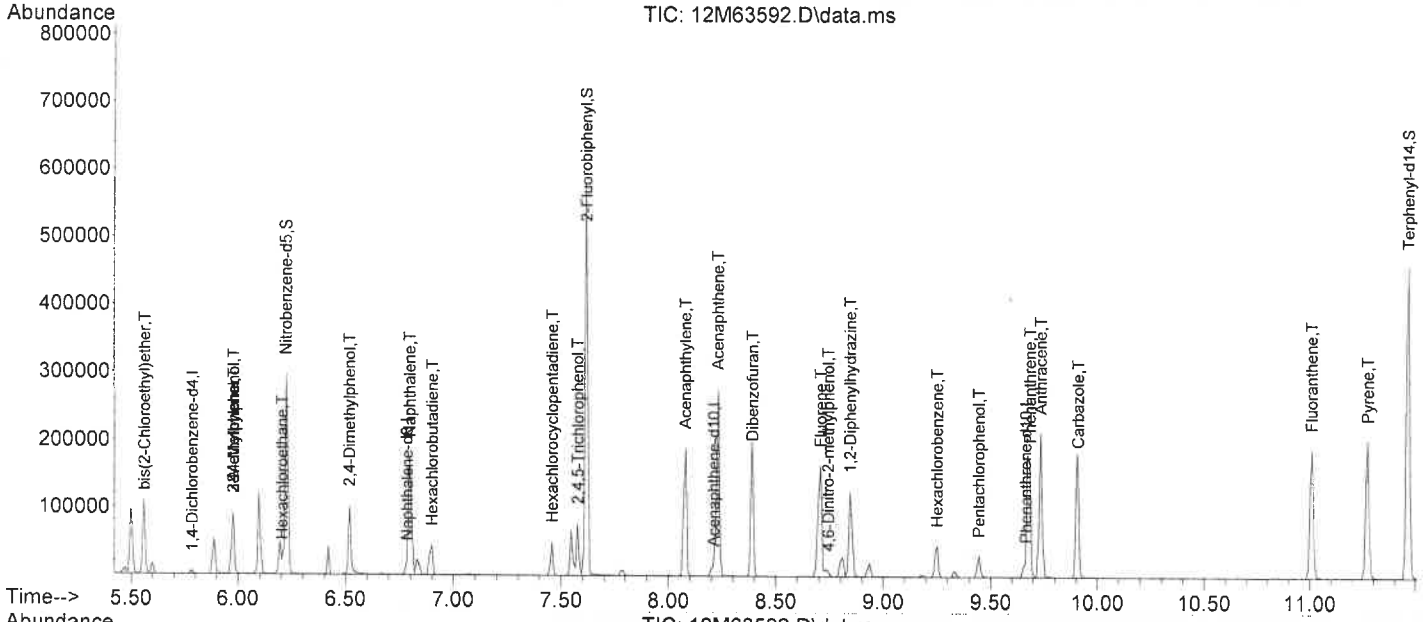
Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22

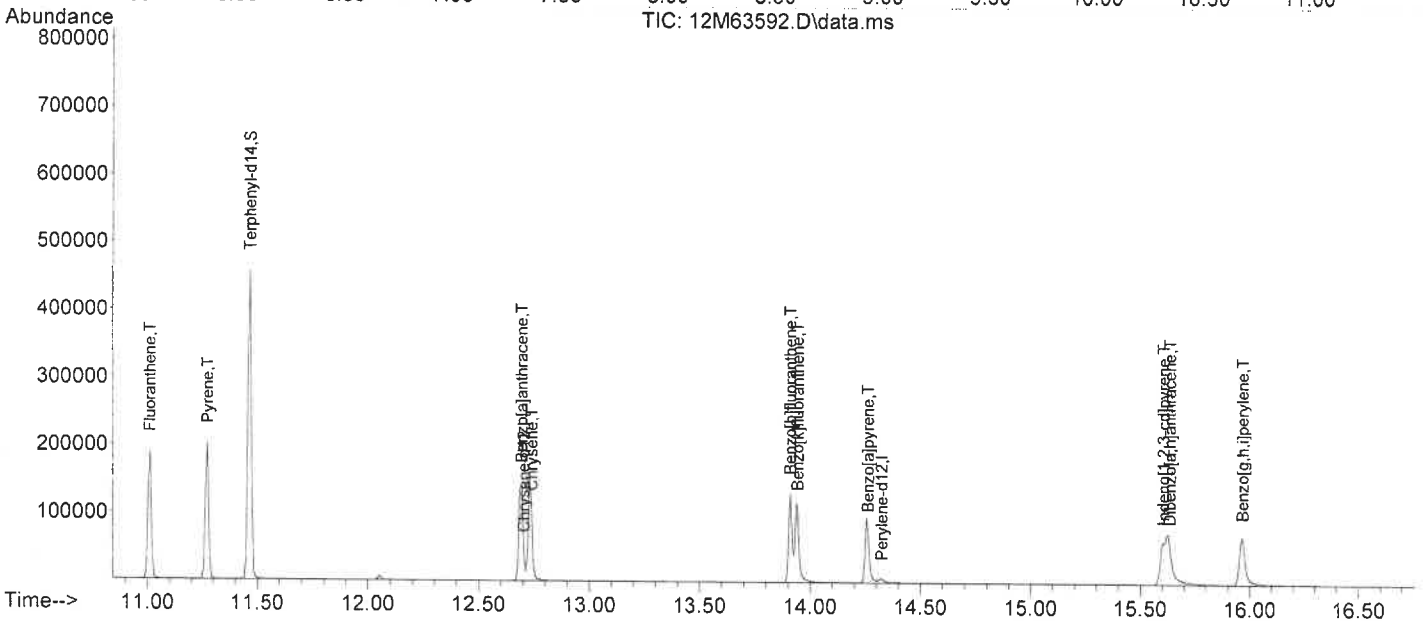
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-19-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.555	96	24236	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.784	152	31231	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145140	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	65959	0.40	ng	0.00
22) Phenanthrene-d10	9.659	188	133138	0.40	ng	0.00
31) Chrysene-d12	12.702	240	72314m	0.40	ng	0.00
36) Perylene-d12	14.325	264	50268	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1892271	25.97	ng	0.00
Spiked Amount 50.000			Recovery = 51.94%			
17) 2-Fluorobiphenyl	7.619	172	3798960	23.20	ng	0.00
Spiked Amount 50.000			Recovery = 46.40%			
33) Terphenyl-d14	11.467	244	4027465	22.62	ng	0.00
Spiked Amount 50.000			Recovery = 45.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.585	88	299721	4.6259	ng	96
4) N-Nitrosodimethylamine	2.973	74	415550	5.5528	ng	78
5) bis(2-Chloroethyl)ether	5.561	93	544588	4.5667	ng	89
6) 2-Methylphenol	5.981	108	428914	5.9834	ng	86
7) Hexachloroethane	6.198	201	185479	5.0870	ng	36
8) 3&4-Methylphenol	5.980	108	429241	5.9390	ng	87
11) 2,4-Dimethylphenol	6.519	107	338246	5.6266	ng	79
12) Naphthalene	6.799	128	1590967	4.7990	ng	99
13) Hexachlorobutadiene	6.901	225	292644	4.4973	ng	48
15) Hexachlorocyclopentadiene	7.462	237	235354	4.8235	ng	91
16) 2,4,5-Trichlorophenol	7.575	196	213843m	4.7185	ng	
18) Acenaphthylene	8.082	152	1507690	5.2064	ng	99
19) Acenaphthene	8.233	153	920576	4.7729	ng	82
20) Dibenzofuran	8.391	168	1283632	4.5869	ng	92
21) Fluorene	8.710	166	891458	5.1667	ng	91
23) 4,6-Dinitro-2-methylph...	8.743	198	82616	5.5120	ng	81
24) 1,2-Diphenylhydrazine	8.848	77	1003364	4.5503	ng	91
25) Hexachlorobenzene	9.254	284	368006	4.5741	ng	92
26) Pentachlorophenol	9.448	266	174375	5.6731	ng	96
27) Phenanthrene	9.681	178	1677812	4.7874	ng	97
28) Anthracene	9.737	178	1480446	5.4163	ng	98
29) Carbazole	9.908	167	1487661	5.5289	ng	94
30) Fluoranthene	11.012	202	1816066	5.9950	ng	96
32) Pyrene	11.275	202	1914697	4.5474	ng	92
34) Benzo[a]anthracene	12.693	228	1244537	4.8006	ng	95
35) Chrysene	12.735	228	1210613	4.4222	ng	96
37) Benzo[b]fluoranthene	13.913	252	1049232	5.2070	ng	95
38) Benzo[k]fluoranthene	13.942	252	1166180	4.7928	ng	94
39) Benzo[a]pyrene	14.260	252	1044816	4.8673	ng	89
40) Indeno[1,2,3-cd]pyrene	15.604	276	1053178	4.5977	ng	95
41) Dibenzo[a,h]anthracene	15.629	278	822641	4.3708	ng	92
42) Benzo[g,h,i]perylene	15.966	276	924622	4.8824	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63592.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63592.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63592.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

QC102718 Pest

QC102719 PCB

Hampton-Clarke

Shaker Extraction: (Pest) (3510C) / (PCB) (3510C) / Other(_____):

Pest Batch No.: 102718
Start Ext Date/Time: ~~8/17/22~~ jm 8/17/22 8/17/22 5:02pm
End Ext. Date/Time: 8/18/22 4:27am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

PCB Batch No.: 102719
Shaker Used: 2, 3, 4
Condenser Used: 1, 2
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102718 / 719	X	X	1000mL	5mL	jm	32691-001	EF, 377745 8/16
MBS 102718/719	X	X	↓	↓			
MS 32691-001	X		100mL				
MSD 32691-001	X		↓				
MS 32707-011		X	500mL				
MSD 32707-011		X	↓				
AD 32691-001	1		100mL			1	1
EF, 377745 8/16	X		↓	↓			
AD 32707-011		1	500mL	2.5mL	1/2 Surr.		
↓ -012		2	1000mL	5mL			
AD 32679-001	2	3					
AD 32715-001		4					
-002		5					
-003		6					
-004		7					
-005		8					
↓ -006		9					
AD 32722-001	3	10					
-003	4	11					
↓ -006	5	12	↓	↓	↓		
					Rack #19		
Copper Cleanup:	____	____					
Sulfuric Acid Cleanup:	N/A	X					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14721 baked Na_2SO_4: 377180 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: jm Date: 8/17/22
Received By: AR Date: 8/18/22

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/22/22
Data File: SW08222022A
Prep Batch: 101940
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2081222

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-378228-11	CCB V-378228-22	CCB V-377708-34	CCB V-377708-46	CCB V-378228-52	MB 101940-23
Arsenic	.5U	1U	1U	1U	1U	1U
Beryllium	.25U	.5U	.5U	.5U	.5U	.5U
Chromium	.5U	1U	1U	1U	1U	1U
Copper	2.5U	5U	5U	5U	5U	5U
Iron	75U	150U	150U	150U	150U	150U
Lead	.75U	1.5U	1.5U	1.5U	1.5U	1.5U
Nickel	.75U	1.5U	1.5U	1.5U	1.5U	1.5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 101940

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 101940

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	25	SW082220	24	256.0710	257.6840	.63	20
Chromium	101940	SW082220	25	SW082220	24	273.6870	275.4190	.63	20
Copper	101940	SW082220	25	SW082220	24	257.5620	257.5060	.022	20
Lead	101940	SW082220	25	SW082220	24	245.5650	245.8830	.13	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	27	SW082220	26	1U	1U	---	20
Chromium	101940	SW082220	27	SW082220	26	1U	1U	---	20
Copper	101940	SW082220	27	SW082220	26	5U	5U	---	20
Lead	101940	SW082220	27	SW082220	26	1.5U	1.5U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	29	SW082220	28	261.4290	248.9670	4.9	20
Chromium	101940	SW082220	29	SW082220	28	273.0760	261.3450	4.4	20
Copper	101940	SW082220	29	SW082220	28	254.2400	239.9580	5.8	20
Lead	101940	SW082220	29	SW082220	28	243.4830	230.7070	5.4	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	101940	SW082220	31	SW082220	26	5	0.0930	0.5390	14	a	10
Chromium	101940	SW082220	31	SW082220	26	5	0.1480	0.4610	61	c	10
Copper	101940	SW082220	31	SW082220	26	5	-0.0020	0.4940	---		10
Lead	101940	SW082220	31	SW082220	26	5	0.0600	0.2880	4.2		10

a-Indicates Rpd Failed the criteria
b-Method Rep Out but concentrations < 5*RL
c-Serial dilution Out but conc < 10 * IDL

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD36716
May 16, 2023
Sampling date: 3/8, 9/2023

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD36716 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	DAY-1	AD36716-01
2	VE 4-9	AD36716-02
3	FA 4-9	AD36716-03
4	VE 4-7	AD36716-04
5	FA 4-16	AD36716-05
6	PGW-2	AD36716-06
7	Oull-A	AD36716-07
8	Oull-B	AD36716-08
9	Oull-C	AD36716-09
10	Oull-D	AD36716-10
11	OU11-E	AD36716-11
12	OU11-F	AD36716-12
13	VE 3-1	AD36716-13
14	VE 1-2	AD36716-14
15	VE 1-4	AD36716-15
16	VE 1-4 MS	AD36716-16
17	VE 1-4 MSD	AD36716-17
18	VE 2-1	AD36716-18
19	VE 4-11	AD36716-19
20	030923DUP	AD36716-20
21	030923EB	AD36716-21
22	Trip Blank	AD36716-22

All target analytes were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recovery, Laboratory Control Samples, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#1 and #13-20 was outside QC limits. These samples were analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Toluene-d_8 was outside QC limits, low in DUSR ID#17. The associated target analytes below should be qualified as estimated in this sample.

1,3,5-Trimethylbenzene	Benzene	Chlorobenzene
Isopropylbenzene	m&p-Xylene	Ethylbenzene
Toluene	o-Xylene	

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of some target analytes were outside QC limits in the laboratory control samples and should be qualified as estimated. These target analytes should be qualified in the associated samples.

LCS ID	Target Analyte	%Rec	Qualifier	Associated Sample
MBS107544	Ethylbenzene	62	UJ	15
MBS107544	m&p-Xylene	65	UJ	15
MBS107544	Naphthalene	44	UJ	15
MBS107544	Methyl tert butyl ether	164	JH	none
MBS107552	1,3,5-Trimethylbenzene	383	JH	13

MS/MSD
All criteria were met except the %Rec of a couple of target analytes was outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated. These target analytes should be qualified in the associated samples.

Target Analyte	%Rec #16	%Rec #17	Qualifier	Associated Sample
Methyl tert butyl ether	147	178	JH	none
Toluene	68	72	UJ	15, 20

Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
6M165218.D	Toluene	29.87	UJ/J	MB/MBS107544, 15-17
6M165218.D	n-Butylbenzene	28.31	UJ/J	MB/MBS107544, 15-17
6M165256.D	Methyl tert butyl ether	72.16	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165256.D	Ethylbenzene	21.27	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165299.D	Methyl tert butyl ether	73.35	UJ/J	MB/MBS107558, 21, 22
6M165299.D	Ethylbenzene	25.44	UJ/J	MB/MBS107558, 21, 22
6M165299.D	o-Xylene	23.38	UJ/J	MB/MBS107558, 21, 22

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7 for the continuing calibration file #12M66140.D. An updated form is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#15, #18, #20, #21 and WMB106862. There were no associated target analytes detected in these samples, so no further action is required.
The %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#16, #17 and MS106862. The associated target analytes below should be qualified as estimated high in these spikes.

2-Methylnaphthalene	Naphthalene

The %Rec of Nitrobenzene-d_5 was outside QC limits, low in DUSR ID#1. The associated target analytes below should be qualified as estimated in this sample.

2-Methylnaphthalene	Naphthalene

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Initial Calibration and Continuing Calibration.

Samples: DUSR ID#2, #4 and #7 were diluted.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the chromatogram for DUSR ID#21 was not legible in the original package. Updated pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Serial Dilution.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except Cr, Cu and Pb were detected in DUSR ID#15 but were not detected in #20.

SERIAL DILUTION
All criteria were met except the %D of a couple of target analytes was outside QC limits in the serial dilution and should be qualified as estimated.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
15SD	As	22	UJ	15, 20
15SD	Pb	34	UJ/J	15, 20

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project: 3031102

Hampton-Clarke (HC) received the following samples on 3/10/23:

Client ID	HC Sample ID	Matrix	Analysis
DAY-1	AD36716-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-9	AD36716-002	Aqueous	PCB (8082A)
FA 4-9	AD36716-003	Aqueous	PCB (8082A)
VE 4-7	AD36716-004	Aqueous	PCB (8082A)
FA 4-16	AD36716-005	Aqueous	PCB (8082A)
PGW-2	AD36716-006	Aqueous	PCB (8082A)
Oull-A	AD36716-007	Aqueous	PCB (8082A)
Oull-B	AD36716-008	Aqueous	PCB (8082A)
Oull-C	AD36716-009	Aqueous	PCB (8082A)
Oull-D	AD36716-010	Aqueous	PCB (8082A)
OU11-E	AD36716-011	Aqueous	PCB (8082A)
OU11-F	AD36716-012	Aqueous	PCB (8082A)
VE 3-1	AD36716-013	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-2	AD36716-014	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4	AD36716-015	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MS	AD36716-016	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MSD	AD36716-017	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 2-1	AD36716-018	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-11	AD36716-019	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923DUP	AD36716-020	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923 EB	AD36716-021	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
Trip Blank	AD36716-022	Aqueous	Volatile Organics (8260D)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 107539, 107544, 107552, 107558 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 107552. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 107539, 107544 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The Method Blank Spike for batches 106837, 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 106837 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD36716-001 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

The Method Blank Spike for batch 106874 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

Sample AD36716-004 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Sample AD36716-020 was extracted outside the hold time.

Metals Analysis:

The serial dilution for batch 104579 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	 Jean Revolus Laboratory Director	4/18/2023 Date

HC Report of Analysis

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project #: 3031102

Sample ID: DAY-1
Lab#: AD36716-001
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	**1**	**ug/l**	**2.0**	**4.1**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	**1**	**ug/l**	**2.0**	**7.2**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**11**
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**9.4**
Chromium	**1**	**ug/l**	**2.0**	**4.9**
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND

Sample ID: DAY-1 **Collection Date:** 3/8/2023
Lab#: AD36716-001 **Receipt Date:** 3/10/2023
Matrix: Aqueous

m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-9
Lab#: AD36716-002
Matrix: Oil
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1016	5	mg/kg	2.5	ND
Aroclor-1221	5	mg/kg	2.5	ND
Aroclor-1232	5	mg/kg	2.5	ND
Aroclor-1242	5	mg/kg	2.5	ND
Aroclor-1248	5	mg/kg	2.5	ND
Aroclor-1254	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1260	5	mg/kg	2.5	ND
Aroclor-1262	5	mg/kg	2.5	ND
Aroclor-1268	5	mg/kg	2.5	ND

Sample ID: FA 4-9
Lab#: AD36716-003
Matrix: Oil
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: VE 4-7
Lab#: AD36716-004
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**47**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**47**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: FA 4-16
Lab#: AD36716-005
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**34**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**34** ~~X~~ 5 4m
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: PGW-2
Lab#: AD36716-006
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: Oull-A
Lab#: AD36716-007
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**33**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**33**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: Oull-B
Lab#: AD36716-008
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.50**	**7**
Aroclor-1016	1	ug/l	0.50	ND
Aroclor-1221	1	ug/l	0.50	ND
Aroclor-1232	1	ug/l	0.50	ND
Aroclor-1242	1	ug/l	0.50	ND
Aroclor-1248	1	ug/l	0.50	ND
Aroclor-1254	**1**	**ug/l**	**0.50**	**7**
Aroclor-1260	1	ug/l	0.50	ND
Aroclor-1262	1	ug/l	0.50	ND
Aroclor-1268	1	ug/l	0.50	ND

Sample ID: Oull-C
Lab#: AD36716-009
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: Ouil-D
Lab#: AD36716-010
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: OU11-E
Lab#: AD36716-011
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: OU11-F
Lab#: AD36716-012
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	**1**	**ug/l**	**2.0**	**35**
Acenaphthene	**1**	**ug/l**	**2.0**	**13**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	**1**	**ug/l**	**2.0**	**2.8**
Fluorene	**1**	**ug/l**	**2.0**	**16**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**30**
Pyrene	**1**	**ug/l**	**2.0**	**4.4**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**4.9**
Chromium	**1**	**ug/l**	**2.0**	**3.0**
Copper	1	ug/l	10	ND
Lead	**1**	**ug/l**	**3.0**	**3.9**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**1**	**ug/l**	**1.0**	**3.5**
1,3,5-Trimethylbenzene	**1**	**ug/l**	**1.0**	**2.2**
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	**1**	**ug/l**	**1.0**	**1.4**
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	**1**	**ug/l**	**1.0**	**1.0**
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 1-2 **Collection Date:** 3/9/2023
Lab#: AD36716-014 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-2**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-014**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: VE 1-4 **Collection Date:** 3/9/2023
Lab#: AD36716-015 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	**1**	**ug/l**	**2.0**	**2.3**
Copper	**1**	**ug/l**	**10**	**16**
Lead	**1**	**ug/l**	**3.0**	**6.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-4**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-015**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene		1	ug/l	1.0	ND
o-Xylene		1	ug/l	1.0	ND
sec-Butylbenzene		1	ug/l	1.0	ND
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: VE 1-4 MS
Lab#: AD36716-016
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	41
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	98
Acenaphthylene	1	ug/l	2.0	95
Anthracene	1	ug/l	2.0	100
Benzo[a]anthracene	1	ug/l	2.0	96
Benzo[a]pyrene	1	ug/l	2.0	110
Benzo[b]fluoranthene	1	ug/l	2.0	110
Benzo[g,h,i]perylene	1	ug/l	2.0	96
Benzo[k]fluoranthene	1	ug/l	2.0	100
Chrysene	1	ug/l	2.0	98
Dibenzo[a,h]anthracene	1	ug/l	2.0	100
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	100
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	98
Naphthalene	1	ug/l	0.50	84
Phenanthrene	1	ug/l	2.0	99
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.4
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.7
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	460
Chromium	1	ug/l	2.0	460
Copper	1	ug/l	10	470
Lead	1	ug/l	3.0	420

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	15
1,3,5-Trimethylbenzene	1	ug/l	1.0	14
4-Isopropyltoluene	1	ug/l	1.0	14
Benzene	1	ug/l	0.50	15
Chlorobenzene	1	ug/l	1.0	14
Ethylbenzene	1	ug/l	1.0	14
Isopropylbenzene	1	ug/l	1.0	14
m&p-Xylenes	1	ug/l	1.0	29
Methyl-t-butyl ether	1	ug/l	0.87	29
Naphthalene	1	ug/l	1.0	14
n-Butylbenzene	1	ug/l	1.0	12
n-Propylbenzene	1	ug/l	1.0	14
o-Xylene	1	ug/l	1.0	14
sec-Butylbenzene	1	ug/l	1.0	13

Sample ID:	**VE 1-4 MS**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-016**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				

t-Butylbenzene	**1**	**ug/l**	**1.0**	**13**
Toluene	**1**	**ug/l**	**1.0**	**14**
Xylenes (Total)	**1**	**ug/l**	**1.0**	**43**

Sample ID: VE 1-4 MSD
Lab#: AD36716-017
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	44
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	95
Acenaphthylene	1	ug/l	2.0	92
Anthracene	1	ug/l	2.0	97
Benzo[a]anthracene	1	ug/l	2.0	95
Benzo[a]pyrene	1	ug/l	2.0	100
Benzo[b]fluoranthene	1	ug/l	2.0	100
Benzo[g,h,i]perylene	1	ug/l	2.0	94
Benzo[k]fluoranthene	1	ug/l	2.0	110
Chrysene	1	ug/l	2.0	93
Dibenzo[a,h]anthracene	1	ug/l	2.0	97
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	93
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	94
Naphthalene	1	ug/l	0.50	89
Phenanthrene	1	ug/l	2.0	97
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.2
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.4
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	450
Chromium	1	ug/l	2.0	450
Copper	1	ug/l	10	450
Lead	1	ug/l	3.0	410

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	17
1,3,5-Trimethylbenzene	1	ug/l	1.0	19
4-Isopropyltoluene	1	ug/l	1.0	18
Benzene	1	ug/l	0.50	19
Chlorobenzene	1	ug/l	1.0	19
Ethylbenzene	1	ug/l	1.0	17
Isopropylbenzene	1	ug/l	1.0	17
m&p-Xylenes	1	ug/l	1.0	35
Methyl-t-butyl ether	1	ug/l	0.87	36
Naphthalene	1	ug/l	1.0	15
n-Butylbenzene	1	ug/l	1.0	15
n-Propylbenzene	1	ug/l	1.0	19
o-Xylene	1	ug/l	1.0	18
sec-Butylbenzene	1	ug/l	1.0	18

Sample ID:	**VE 1-4 MSD**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-017**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene	**1**	**ug/l**	**1.0**	**16**	
Toluene	**1**	**ug/l**	**1.0**	**14**	
Xylenes (Total)	**1**	**ug/l**	**1.0**	**53**	

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-11 **Collection Date:** 3/9/2023
Lab#: AD36716-019 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 4-11**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-019**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene		1	ug/l	1.0	ND
o-Xylene		1	ug/l	1.0	ND
sec-Butylbenzene		1	ug/l	1.0	ND
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: 030923DUP
Lab#: AD36716-020
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**030923DUP**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-020**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene	1	ug/l	1.0	ND	
o-Xylene	1	ug/l	1.0	ND	
sec-Butylbenzene	1	ug/l	1.0	ND	
t-Butylbenzene	1	ug/l	1.0	ND	
Toluene	1	ug/l	1.0	ND	
Xylenes (Total)	1	ug/l	1.0	ND	

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Trip Blank
Lab#: AD36716-022
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 6M165207.D
Analysis Date: 03/14/23 23:40
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 6M165271.D
Analysis Date: 03/15/23 21:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	**1,2,4-Trimethylbenzene**	**1.0**	**3.5**	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**2.2**	**91-20-3**	**Naphthalene**	**1.0**	**1.0**
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	**Chlorobenzene**	**1.0**	**1.4**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 6M165267.D
Analysis Date: 03/15/23 20:07
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 6M165249.D
Analysis Date: 03/15/23 13:59
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 6M165240.D
Analysis Date: 03/15/23 10:54
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	15	1634-04-4	Methyl-t-butyl ether	0.87	29
108-67-8	1,3,5-Trimethylbenzene	1.0	14	91-20-3	Naphthalene	1.0	14
99-87-6	4-Isopropyltoluene	1.0	14	104-51-8	n-Butylbenzene	1.0	12
71-43-2	Benzene	0.50	15	103-65-1	n-Propylbenzene	1.0	14
108-90-7	Chlorobenzene	1.0	14	95-47-6	o-Xylene	1.0	14
100-41-4	Ethylbenzene	1.0	14	135-98-8	sec-Butylbenzene	1.0	13
98-82-8	Isopropylbenzene	1.0	14	98-06-6	t-Butylbenzene	1.0	13
79601-23-1	m&p-Xylenes	1.0	29	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	43				

Worksheet #: 682584

Total Target Concentration 250

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 6M165241.D
Analysis Date: 03/15/23 11:14
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	17	1634-04-4	Methyl-t-butyl ether	0.87	36
108-67-8	1,3,5-Trimethylbenzene	1.0	19	91-20-3	Naphthalene	1.0	15
99-87-6	4-Isopropyltoluene	1.0	18	104-51-8	n-Butylbenzene	1.0	15
71-43-2	Benzene	0.50	19	103-65-1	n-Propylbenzene	1.0	19
108-90-7	Chlorobenzene	1.0	19	95-47-6	o-Xylene	1.0	18
100-41-4	Ethylbenzene	1.0	17	135-98-8	sec-Butylbenzene	1.0	18
98-82-8	Isopropylbenzene	1.0	17	98-06-6	t-Butylbenzene	1.0	16
79601-23-1	m&p-Xylenes	1.0	35	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	53				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 6M165268.D
Analysis Date: 03/15/23 20:27
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 6M165269.D
Analysis Date: 03/15/23 20:47
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 6M165270.D
Analysis Date: 03/15/23 21:08
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 6M165318.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-022
Client Id: Trip Blank
Data File: 6M165319.D
Analysis Date: 03/16/23 13:48
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 5M123447.D
Analysis Date: 03/15/23 12:27
Date Rec/Extracted: 03/10/23-03/14/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**4.1**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**7.2**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**11**
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 5M123494.D
Analysis Date: 03/17/23 14:33
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	**2-Methylnaphthalene**	**2.0**	**35**	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**13**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.8**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**16**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**30**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**4.4**

Worksheet #: 682619

Total Target Concentration 100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 5M123495.D
Analysis Date: 03/17/23 14:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 5M123496.D
Analysis Date: 03/17/23 15:20
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 12M66150.D
Analysis Date: 03/17/23 12:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 5M123497.D
Analysis Date: 03/17/23 15:44
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	41	207-08-9	Benzo[k]fluoranthene	2.0	100
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	98
83-32-9	Acenaphthene	2.0	98	53-70-3	Dibenzo[a,h]anthracene	2.0	100
208-96-8	Acenaphthylene	2.0	95	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	100	86-73-7	Fluorene	2.0	100
56-55-3	Benzo[a]anthracene	2.0	96	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	98
50-32-8	Benzo[a]pyrene	2.0	110	91-20-3	Naphthalene	0.50	84
205-99-2	Benzo[b]fluoranthene	2.0	110	85-01-8	Phenanthrene	2.0	99
191-24-2	Benzo[g,h,i]perylene	2.0	96	129-00-0	Pyrene	2.0	100

Worksheet #: 682619 *Total Target Concentration* 1700 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 5M123498.D
Analysis Date: 03/17/23 16:07
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	44	207-08-9	Benzo[k]fluoranthene	2.0	110
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	93
83-32-9	Acenaphthene	2.0	95	53-70-3	Dibenzo[a,h]anthracene	2.0	97
208-96-8	Acenaphthylene	2.0	92	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	97	86-73-7	Fluorene	2.0	93
56-55-3	Benzo[a]anthracene	2.0	95	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	94
50-32-8	Benzo[a]pyrene	2.0	100	91-20-3	Naphthalene	0.50	89
205-99-2	Benzo[b]fluoranthene	2.0	100	85-01-8	Phenanthrene	2.0	97
191-24-2	Benzo[g,h,i]perylene	2.0	94	129-00-0	Pyrene	2.0	100

Worksheet #: 682619

Total Target Concentration 1700

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 5M123499.D
Analysis Date: 03/17/23 16:31
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 12M66151.D
Analysis Date: 03/17/23 13:19
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 5M123500.D
Analysis Date: 03/17/23 16:54
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 12M66152.D
Analysis Date: 03/17/23 13:40
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 5M123501.D
Analysis Date: 03/17/23 17:18
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 12M66153.D
Analysis Date: 03/17/23 14:02
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 5M123502.D
Analysis Date: 03/17/23 17:42
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 12M66154.D
Analysis Date: 03/17/23 14:23
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 2G173918.D
Analysis Date: 03/16/23 12:52
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-002(5X)
Client Id: VE 4-9
Data File: 3G145445.D
Analysis Date: 03/22/23 14:11
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 5
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	2.5	U	**11097-69-1**	**Aroclor-1254**	**2.5**	**52**
11104-28-2	Aroclor-1221	2.5	U	11096-82-5	Aroclor-1260	2.5	U
11141-16-5	Aroclor-1232	2.5	U	37324-23-5	Aroclor-1262	2.5	U
53469-21-9	Aroclor-1242	2.5	U	11100-14-4	Aroclor-1268	2.5	U
12672-29-6	Aroclor-1248	2.5	U	**1336-36-3**	**Aroclor (Total)**	**2.5**	**52**

KLC 03/23/23

Worksheet #: 682639 *Total Target Concentration* 52 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-003
Client Id: FA 4-9
Data File: 2G174184.D
Analysis Date: 03/22/23 10:52
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**30**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**30**

dlw
03/23/23

Worksheet #: 682639 *Total Target Concentration* 30 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-004(5X)
Client Id: VE 4-7
Data File: 2G173930.D
Analysis Date: 03/16/23 15:13
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**(^)Aroclor-1254**	**1.3**	**47**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**47**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-005
Client Id: FA 4-16
Data File: 2G174185.D
Analysis Date: 03/22/23 11:04
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**34**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**34**

dlw 03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-006
Client Id: PGW-2
Data File: 2G174186.D
Analysis Date: 03/22/23 11:15
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**4.7**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**4.7**

Worksheet #: 682637

Total Target Concentration 4.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-007(5X)
Client Id: Oull-A
Data File: 2G173931.D
Analysis Date: 03/16/23 15:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**33**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**33**

dhc
03/22/23

Worksheet #: 682654 *Total Target Concentration* 33 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-008
Client Id: Oull-B
Data File: 2G173921.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**7**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**7.0**

kmc
03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-009
Client Id: Oull-C
Data File: 2G173922.D
Analysis Date: 03/16/23 13:39
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-010
Client Id: Oull-D
Data File: 2G174187.D
Analysis Date: 03/22/23 11:27
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**2.3**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**2.3**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-011
Client Id: OU11-E
Data File: 2G173923.D
Analysis Date: 03/16/23 13:51
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-012
Client Id: OU11-F
Data File: 2G173924.D
Analysis Date: 03/16/23 14:03
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**7.5**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**7.5**

Worksheet #: 682642

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 3G145252.D
Analysis Date: 03/16/23 15:35
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 2G173926.D
Analysis Date: 03/16/23 14:26
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 2G173917.D
Analysis Date: 03/16/23 12:41
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 2G173915.D
Analysis Date: 03/16/23 12:17
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.4**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.7**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 2G173916.D
Analysis Date: 03/16/23 12:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.2**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.4**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

Worksheet #: 682642

Total Target Concentration 6.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 3G145253.D
Analysis Date: 03/16/23 15:47
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 3G145254.D
Analysis Date: 03/16/23 15:58
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 2G174082.D
Analysis Date: 03/20/23 17:42
Date Rec/Extracted: 03/10/23-03/17/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682641

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	9.4	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-47-3	Chromium	2.0	4.9	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-013	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 3-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	3.0	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7439-92-1	Lead	3.0	3.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-014	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-015	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-47-3	Chromium	2.0	2.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-50-8	Copper	10	16	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7439-92-1	Lead	3.0	6.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-016	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-47-3	Chromium	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-50-8	Copper	10	470	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7439-92-1	Lead	3.0	420	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-017	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-47-3	Chromium	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-50-8	Copper	10	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7439-92-1	Lead	3.0	410	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-018	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-021	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923 EB	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-020	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923DUP	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/16/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M165184.D	DAILY BLANK	A	03/14/23 15:50	1		114	101	90	104		
6M165221.D	DAILY BLANK	A	03/15/23 04:26	1		115	104	88	106		
6M165260.D	DAILY BLANK	A	03/15/23 17:43	1		112	106	86	101		
6M165303.D	DAILY BLANK	A	03/16/23 08:22	1		108	105	111	105		
6M165207.D	AD36716-001	A	03/14/23 23:40	1		114	102	91	101		
6M165271.D	AD36716-013	A	03/15/23 21:28	1		110	101	89	97		
6M165267.D	AD36716-014	A	03/15/23 20:07	1		112	110	91	102		
6M165249.D	AD36716-015	A	03/15/23 13:59	1		112	104	90	94		
6M165240.D	AD36716-016(MS:AD36	A	03/15/23 10:54	1		100	93	94	107		
6M165241.D	AD36716-017(MSD:AD3	A	03/15/23 11:14	1		100	94	79	104		
6M165268.D	AD36716-018	A	03/15/23 20:27	1		113	102	93	97		
6M165269.D	AD36716-019	A	03/15/23 20:47	1		115	103	90	112		
6M165270.D	AD36716-020	A	03/15/23 21:08	1		111	99	89	112		
6M165318.D	AD36716-021	A	03/16/23 13:28	1		110	101	85	106		
6M165319.D	AD36716-022	A	03/16/23 13:48	1		112	103	87	107		
6M165186.D	AD36652-009	A	03/14/23 16:30	1		111	103	89	105		
6M165187.D	MBS107539	A	03/14/23 16:51	1		131	100	96	105		
6M165191.D	AD36652-012(MS:AD36	A	03/14/23 18:13	1		102	93	80	106		
6M165192.D	AD36652-013(MSD:AD3	A	03/14/23 18:33	1		100	91	96	105		
6M165229.D	MBS107544	A	03/15/23 07:09	1		106	91	97	96		
6M165272.D	AD36698-021(50X)(T)	A	03/15/23 21:49	1		99	97	96	106		
6M165285.D	MBS107552	A	03/16/23 02:14	1		103	91	93	108		
6M165286.D	AD36698-021(50X)(T:M	A	03/16/23 02:35	1		109	92	90	104		
6M165287.D	AD36698-021(50X)(T:M	A	03/16/23 02:56	1		107	95	89	104		
6M165313.D	MBS107558	A	03/16/23 11:46	1		101	94	94	106		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165229.D	MBS107544	3/15/2023 7:09:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.3975	0	20	72	50	150
Dichlorodifluoromethane	1	6.6241	0	20	33*	50	150
Chloromethane	1	10.2612	0	20	51	50	150
Bromomethane	1	18.1595	0	20	91	50	150
Vinyl Chloride	1	14.5793	0	20	73	50	150
Chloroethane	1	19.7635	0	20	99	50	150
Trichlorofluoromethane	1	21.5473	0	20	108	50	150
Ethyl ether	1	22.2559	0	20	111	50	150
Furan	1	23.2469	0	20	116	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.1563	0	20	161*	50	150
Methylene Chloride	1	16.1192	0	20	81	70	130
Acrolein	1	175.8832	0	100	176*	50	150
Acrylonitrile	1	26.3947	0	20	132	50	150
Iodomethane	1	10.52	0	20	53	50	150
Acetone	1	118.3247	0	100	118	50	150
Carbon Disulfide	1	14.8928	0	20	74	50	150
t-Butyl Alcohol	1	163.3593	0	100	163*	50	150
n-Hexane	1	28.6982	0	20	143*	70	130
Di-isopropyl-ether	1	30.267	0	20	151*	70	130
1,1-Dichloroethene	1	15.6548	0	20	78	70	130
Methyl Acetate	1	21.4558	0	20	107	50	150
Methyl-t-butyl ether	**1**	**32.7342**	**0**	**20**	**164***	**70**	**130**
1,1-Dichloroethane	1	15.7757	0	20	79	70	130
trans-1,2-Dichloroethene	1	17.076	0	20	85	70	130
Ethyl-t-butyl ether	1	16.3869	0	20	82	70	130
cis-1,2-Dichloroethene	1	16.0706	0	20	80	70	130
Bromochloromethane	1	15.0441	0	20	75	70	130
2,2-Dichloropropane	1	16.8812	0	20	84	70	130
Ethyl acetate	1	13.2934	0	20	66	50	150
1,4-Dioxane	1	1975.576	0	1000	198*	50	150
1,1-Dichloropropene	1	17.9222	0	20	90	70	130
Chloroform	1	17.3594	0	20	87	70	130
Cyclohexane	1	32.1782	0	20	161*	70	130
1,2-Dichloroethane	1	16.8988	0	20	84	70	130
2-Butanone	1	16.6036	0	20	83	50	150
1,1,1-Trichloroethane	1	18.3368	0	20	92	70	130
Carbon Tetrachloride	1	18.8395	0	20	94	50	150
Vinyl Acetate	1	22.9765	0	20	115	50	150
Bromodichloromethane	1	17.4585	0	20	87	70	130
Methylcyclohexane	1	33.9793	0	20	170*	70	130
Dibromomethane	1	18.5642	0	20	93	70	130
1,2-Dichloropropane	1	16.658	0	20	83	70	130
Trichloroethene	1	18.85	0	20	94	70	130
Benzene	**1**	**17.5962**	**0**	**20**	**88**	**70**	**130**
tert-Amyl methyl ether	1	17.2067	0	20	86	70	130
Iso-propylacetate	1	12.6797	0	20	63*	70	130
Methyl methacrylate	1	13.7796	0	20	69*	70	130
Dibromochloromethane	1	16.3542	0	20	82	70	130
2-Chloroethylvinylether	1	13.1114	0	20	66*	70	130
cis-1,3-Dichloropropene	1	14.7639	0	20	74	70	130
trans-1,3-Dichloropropene	1	14.9852	0	20	75	70	130
Ethyl methacrylate	1	13.568	0	20	68*	70	130
1,1,2-Trichloroethane	1	15.3028	0	20	77	70	130
1,2-Dibromoethane	1	15.0608	0	20	75	70	130
1,3-Dichloropropane	1	14.5106	0	20	73	70	130
4-Methyl-2-Pentanone	1	12.393	0	20	62	50	150
2-Hexanone	1	12.101	0	20	61	50	150
Tetrachloroethene	1	17.4924	0	20	87	50	150
Toluene	**1**	**16.1222**	**0**	**20**	**81**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.051	0	20	85	70	130
Chlorobenzene	**1**	**16.7393**	**0**	**20**	**84**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	12.2298	0	20	61*	70	130
n-Amyl acetate	1	10.599	0	20	53*	70	130
Bromoform	1	13.8188	0	20	69*	70	130
Ethylbenzene	**1**	**12.4287**	**0**	**20**	**62***	**70**	**130**
1,1,2,2-Tetrachloroethane	1	13.1687	0	20	66*	70	130
Styrene	1	14.8433	0	20	74	70	130
m&p-Xylenes	**1**	**25.9764**	**0**	**40**	**65***	**70**	**130**
o-Xylene	**1**	**14.8283**	**0**	**20**	**74**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	23.9879	0	20	120	50	150
1,3-Dichlorobenzene	1	16.0787	0	20	80	70	130
1,4-Dichlorobenzene	1	16.1492	0	20	81	70	130
1,2-Dichlorobenzene	1	15.8058	0	20	79	70	130
Isopropylbenzene	**1**	**15.3864**	**0**	**20**	**77**	**70**	**130**
Cyclohexanone	1	129.8696	0	100	130	50	150
Camphene	1	16.5091	0	20	83	70	130
1,2,3-Trichloropropane	1	16.6952	0	20	83	70	130
2-Chlorotoluene	1	15.3073	0	20	77	70	130
p-Ethyltoluene	1	15.479	0	20	77	70	130
4-Chlorotoluene	1	15.5731	0	20	78	70	130
n-Propylbenzene	**1**	**16.4029**	**0**	**20**	**82**	**70**	**130**
Bromobenzene	1	15.5651	0	20	78	70	130
1,3,5-Trimethylbenzene	**1**	**16.009**	**0**	**20**	**80**	**70**	**130**
Butyl methacrylate	1	13.9094	0	20	70	70	130
t-Butylbenzene	**1**	**16.9045**	**0**	**20**	**85**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**16.6028**	**0**	**20**	**83**	**70**	**130**
sec-Butylbenzene	**1**	**17.7175**	**0**	**20**	**89**	**70**	**130**
4-Isopropyltoluene	**1**	**16.9583**	**0**	**20**	**85**	**70**	**130**
n-Butylbenzene	**1**	**16.805**	**0**	**20**	**84**	**70**	**130**
p-Diethylbenzene	1	11.8075	0	20	59*	70	130
1,2,4,5-Tetramethylbenzene	1	13.6476	0	20	68*	70	130
1,2-Dibromo-3-Chloropropane	1	12.6137	0	20	63	50	150
Camphor	1	110.4953	0	200	55	20	150
Hexachlorobutadiene	1	13.2584	0	20	66	50	150
1,2,4-Trichlorobenzene	1	12.5214	0	20	63*	70	130
1,2,3-Trichlorobenzene	1	12.1636	0	20	61*	70	130
Naphthalene	**1**	**8.7893**	**0**	**20**	**44***	**50**	**150**

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107552

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.3791	0	20	82	70	130
n-Amyl acetate	1	13.5355	0	20	68*	70	130
Bromoform	1	18.8094	0	20	94	70	130
Ethylbenzene	**1**	**19.2521**	**0**	**20**	**96**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	15.8221	0	20	79	70	130
Styrene	1	20.7394	0	20	104	70	130
m&p-Xylenes	**1**	**42.0353**	**0**	**40**	**105**	**70**	**130**
o-Xylene	**1**	**19.7631**	**0**	**20**	**99**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	17.0738	0	20	85	50	150
1,3-Dichlorobenzene	1	19.3352	0	20	97	70	130
1,4-Dichlorobenzene	1	19.768	0	20	99	70	130
1,2-Dichlorobenzene	1	18.8267	0	20	94	70	130
Isopropylbenzene	**1**	**20.5301**	**0**	**20**	**103**	**70**	**130**
Cyclohexanone	1	525.8372	0	100	526*	50	150
Camphene	1	20.3189	0	20	102	70	130
1,2,3-Trichloropropane	1	15.6934	0	20	78	70	130
2-Chlorotoluene	1	21.0741	0	20	105	70	130
p-Ethyltoluene	1	51.0875	0	20	255*	70	130
4-Chlorotoluene	1	19.2049	0	20	96	70	130
n-Propylbenzene	**1**	**20.1412**	**0**	**20**	**101**	**70**	**130**
Bromobenzene	1	17.6731	0	20	88	70	130
1,3,5-Trimethylbenzene	**1**	**76.5656**	**0**	**20**	**383***	**70**	**130**
Butyl methacrylate	1	16.0338	0	20	80	70	130
t-Butylbenzene	**1**	**20.5706**	**0**	**20**	**103**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**21.5783**	**0**	**20**	**108**	**70**	**130**
sec-Butylbenzene	**1**	**20.8948**	**0**	**20**	**104**	**70**	**130**
4-Isopropyltoluene	**1**	**21.4926**	**0**	**20**	**107**	**70**	**130**
n-Butylbenzene	**1**	**25.5512**	**0**	**20**	**128**	**70**	**130**
p-Diethylbenzene	1	41.9495	0	20	210*	70	130
1,2,4,5-Tetramethylbenzene	1	76.5664	0	20	383*	70	130
1,2-Dibromo-3-Chloropropane	1	16.7162	0	20	84	50	150
Camphor	1	197.4855	0	200	99	20	150
Hexachlorobutadiene	1	20.4221	0	20	102	50	150
1,2,4-Trichlorobenzene	1	19.5486	0	20	98	70	130
1,2,3-Trichlorobenzene	1	19.2896	0	20	96	70	130
Naphthalene	**1**	**14.9838**	**0**	**20**	**75**	**50**	**150**

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165240.D	AD36716-016(MS:AD36716-015	3/15/2023 10:54:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.6035	0	20	58	50	150
Dichlorodifluoromethane	1	4.1957	0	20	21*	50	150
Chloromethane	1	9.1034	0	20	46*	50	150
Bromomethane	1	15.294	0	20	76	50	150
Vinyl Chloride	1	12.252	0	20	61	50	150
Chloroethane	1	14.8368	0	20	74	50	150
Trichlorofluoromethane	1	18.1046	0	20	91	50	150
Ethyl ether	1	20.0645	0	20	100	50	150
Furan	1	20.1708	0	20	101	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	31.7614	0	20	159*	50	150
Methylene Chloride	1	13.9181	0	20	70	70	130
Acrolein	1	168.1862	0	100	168*	50	150
Acrylonitrile	1	22.6595	0	20	113	50	150
Iodomethane	1	10.0387	0	20	50	50	150
Acetone	1	119.1982	0	100	119	50	150
Carbon Disulfide	1	13.1789	0	20	66	50	150
t-Butyl Alcohol	1	192.3124	0	100	192*	50	150
n-Hexane	1	23.1827	0	20	116	70	130
Di-isopropyl-ether	1	26.1297	0	20	131*	70	130
1,1-Dichloroethene	1	14.7844	0	20	74	70	130
Methyl Acetate	1	21.148	0	20	106	50	150
Methyl-t-butyl ether	**1**	**29.3749**	**0**	**20**	**147***	**70**	**130**
1,1-Dichloroethane	1	13.9648	0	20	70	70	130
trans-1,2-Dichloroethene	1	14.5114	0	20	73	70	130
Ethyl-t-butyl ether	1	14.8595	0	20	74	70	130
cis-1,2-Dichloroethene	1	13.2246	0	20	66*	70	130
Bromochloromethane	1	12.9272	0	20	65*	70	130
2,2-Dichloropropane	1	13.865	0	20	69*	70	130
Ethyl acetate	1	10.5179	0	20	53	50	150
1,4-Dioxane	1	2861.114	0	1000	286*	50	150
1,1-Dichloropropene	1	14.8193	0	20	74	70	130
Chloroform	1	14.5189	0	20	73	70	130
Cyclohexane	1	27.6507	0	20	138*	70	130
1,2-Dichloroethane	1	14.5035	0	20	73	70	130
2-Butanone	1	16.2886	0	20	81	50	150
1,1,1-Trichloroethane	1	15.3653	0	20	77	70	130
Carbon Tetrachloride	1	16.0317	0	20	80	50	150
Vinyl Acetate	1	20.8191	0	20	104	50	150
Bromodichloromethane	1	14.4888	0	20	72	70	130
Methylcyclohexane	1	27.0932	0	20	135*	70	130
Dibromomethane	1	15.6668	0	20	78	70	130
1,2-Dichloropropane	1	13.9881	0	20	70	70	130
Trichloroethene	1	15.5814	0	20	78	70	130
Benzene	**1**	**15.1227**	**0**	**20**	**76**	**70**	**130**
tert-Amyl methyl ether	1	14.9574	0	20	75	70	130
Iso-propylacetate	1	12.3228	0	20	62*	70	130
Methyl methacrylate	1	11.6766	0	20	58*	70	130
Dibromochloromethane	1	13.4965	0	20	67*	70	130
2-Chloroethylvinylether	1	11.0386	0	20	55*	70	130
cis-1,3-Dichloropropene	1	12.1886	0	20	61*	70	130
trans-1,3-Dichloropropene	1	12.4407	0	20	62*	70	130
Ethyl methacrylate	1	12.6236	0	20	63*	70	130
1,1,2-Trichloroethane	1	13.1534	0	20	66*	70	130
1,2-Dibromoethane	1	13.1559	0	20	66*	70	130
1,3-Dichloropropane	1	12.407	0	20	62*	70	130
4-Methyl-2-Pentanone	1	12.0822	0	20	60	50	150
2-Hexanone	1	12.5599	0	20	63	50	150
Tetrachloroethene	1	14.4092	0	20	72	50	150
Toluene	**1**	**13.6016**	**0**	**20**	**68***	**70**	**130**
1,1,1,2-Tetrachloroethane	1	14.1356	0	20	71	70	130
Chlorobenzene	**1**	**13.862**	**0**	**20**	**69***	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165241.D	AD36716-017(MSD:AD36716-0	3/15/2023 11:14:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.2374	0	20	71	50	150
Dichlorodifluoromethane	1	6.1724	0	20	31*	50	150
Chloromethane	1	11.4594	0	20	57	50	150
Bromomethane	1	18.0707	0	20	90	50	150
Vinyl Chloride	1	15.7349	0	20	79	50	150
Chloroethane	1	20.2381	0	20	101	50	150
Trichlorofluoromethane	1	20.8242	0	20	104	50	150
Ethyl ether	1	22.0086	0	20	110	50	150
Furan	1	19.3822	0	20	97	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8635	0	20	164*	50	150
Methylene Chloride	1	17.3547	0	20	87	70	130
Acrolein	1	130.2965	0	100	130	50	150
Acrylonitrile	1	27.9639	0	20	140	50	150
Iodomethane	1	13.9991	0	20	70	50	150
Acetone	1	136.1676	0	100	136	50	150
Carbon Disulfide	1	15.757	0	20	79	50	150
t-Butyl Alcohol	1	217.5669	0	100	218*	50	150
n-Hexane	1	27.5738	0	20	138*	70	130
Di-isopropyl-ether	1	32.4273	0	20	162*	70	130
1,1-Dichloroethene	1	16.1662	0	20	81	70	130
Methyl Acetate	1	25.104	0	20	126	50	150
Methyl-t-butyl ether	**1**	**35.6281**	**0**	**20**	**178***	**70**	**130**
1,1-Dichloroethane	1	16.5414	0	20	83	70	130
trans-1,2-Dichloroethene	1	18.0203	0	20	90	70	130
Ethyl-t-butyl ether	1	18.3055	0	20	92	70	130
cis-1,2-Dichloroethene	1	16.354	0	20	82	70	130
Bromochloromethane	1	15.6474	0	20	78	70	130
2,2-Dichloropropane	1	16.3989	0	20	82	70	130
Ethyl acetate	1	13.1581	0	20	66	50	150
1,4-Dioxane	1	2837.656	0	1000	284*	50	150
1,1-Dichloropropene	1	17.7191	0	20	89	70	130
Chloroform	1	17.735	0	20	89	70	130
Cyclohexane	1	32.5525	0	20	163*	70	130
1,2-Dichloroethane	1	17.2424	0	20	86	70	130
2-Butanone	1	17.847	0	20	89	50	150
1,1,1-Trichloroethane	1	18.8334	0	20	94	70	130
Carbon Tetrachloride	1	19.1762	0	20	96	50	150
Vinyl Acetate	1	25.3452	0	20	127	50	150
Bromodichloromethane	1	18.1035	0	20	91	70	130
Methylcyclohexane	1	32.9319	0	20	165*	70	130
Dibromomethane	1	19.7523	0	20	99	70	130
1,2-Dichloropropane	1	17.295	0	20	86	70	130
Trichloroethene	1	19.3559	0	20	97	70	130
Benzene	**1**	**18.7052**	**0**	**20**	**94**	**70**	**130**
tert-Amyl methyl ether	1	18.2643	0	20	91	70	130
Iso-propylacetate	1	12.5492	0	20	63*	70	130
Methyl methacrylate	1	12.1399	0	20	61*	70	130
Dibromochloromethane	1	14.4615	0	20	72	70	130
2-Chloroethylvinylether	1	12.1315	0	20	61*	70	130
cis-1,3-Dichloropropene	1	13.3784	0	20	67*	70	130
trans-1,3-Dichloropropene	1	13.2302	0	20	66*	70	130
Ethyl methacrylate	1	13.172	0	20	66*	70	130
1,1,2-Trichloroethane	1	13.7055	0	20	69*	70	130
1,2-Dibromoethane	1	13.9032	0	20	70	70	130
1,3-Dichloropropane	1	13.2052	0	20	66*	70	130
4-Methyl-2-Pentanone	1	12.9983	0	20	65	50	150
2-Hexanone	1	12.7697	0	20	64	50	150
Tetrachloroethene	1	15.2598	0	20	76	50	150
Toluene	**1**	**14.3538**	**0**	**20**	**72**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.752	0	20	89	70	130
Chlorobenzene	**1**	**18.8148**	**0**	**20**	**94**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165218.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 3:25:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	12.60	20	20		0.198	0.125	37.01	C1
cis-1,3-Dichloropropene	1	0		5.82	12.74	20	20	0.2	0.724	0.461	36.28	C1
trans-1,3-Dichloropropene	1	0		6.10	12.97	20	20	0.1	0.611	0.396	35.17	C1
Ethyl methacrylate	1	0		6.12	11.93	20	20	0.5	0.302	0.180	40.34	C1
1,1,2-Trichloroethane	1	0		6.21	16.02	20	20	0.1	0.460	0.368	19.92	
1,2-Dibromoethane	1	0		6.51	16.33	20	20	0.1	0.472	0.385	18.34	
1,3-Dichloropropane	1	0		6.31	16.55	20	20		0.743	0.615	17.23	
4-Methyl-2-Pentanone	1	0		5.89	12.50	20	20	0.1	0.293	0.183	37.49	C1
2-Hexanone	1	0		6.32	16.63	20	20	0.1	0.192	0.160	16.86	
Tetrachloroethene	1	0		6.31	17.43	20	20	0.2	0.426	0.371	12.84	
Toluene-d8	1	0	S	5.98	22.92	30	**		1.126	0.861	23.60	
Toluene	1	0		6.01	14.03	20	20	0.4	1.154	0.809	29.87	C1
1,1,1,2-Tetrachloroethane	1	0		6.80	17.70	20	20		0.485	0.430	11.49	
Chlorobenzene	1	0		6.77	17.38	20	20	0.5	1.315	1.142	13.10	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.30	20	20	0.5	1.289	1.051	18.49	
n-Amyl acetate	1	0		7.13	17.20	20	20	0.5	1.030	1.052	13.99	
Bromoform	1	0		7.22	17.60	20	20	0.1	0.701	0.617	11.98	
Ethylbenzene	1	0		6.81	18.68	20	20	0.1	0.971	0.907	6.59	
1,1,2,2-Tetrachloroethane	1	0		7.43	16.89	20	20	0.1	1.053	0.889	15.57	
Bromofluorobenzene	1	0	S	7.38	32.70	30	**		0.757	0.825	9.00	
Styrene	1	0		7.09	18.37	20	20	0.3	2.303	2.116	8.13	
m&p-Xylenes	1	0		6.87	38.87	40	20	0.1	1.336	1.298	2.82	
o-Xylene	1	0		7.09	17.87	20	20	0.3	1.439	1.286	10.66	
trans-1,4-Dichloro-2-butene	1	0		7.46	16.35	20	20		0.293	0.239	18.26	
1,3-Dichlorobenzene	1	0		8.01	17.80	20	20	0.6	1.818	1.618	10.98	
1,4-Dichlorobenzene	1	0		8.06	16.99	20	20	0.5	1.833	1.557	15.05	
1,2-Dichlorobenzene	1	0		8.28	14.90	20	20	0.4	1.739	1.296	25.49	C1
Isopropylbenzene	1	0		7.28	19.07	20	20	0.1	3.325	3.170	4.66	
Cyclohexanone	1	0		7.35	115.87	100	20		0.008	0.007	15.87	
Camphene	1	0		7.46	17.93	20	20		0.828	0.743	10.36	
1,2,3-Trichloropropane	1	0		7.47	17.65	20	20		1.173	1.035	11.75	
2-Chlorotoluene	1	0		7.58	19.37	20	20		2.119	2.052	3.17	
p-Ethyltoluene	1	0		7.57	18.01	20	20		3.491	3.144	9.94	
4-Chlorotoluene	1	0		7.63	18.13	20	20		2.076	1.881	9.37	
n-Propylbenzene	1	0		7.51	20.29	20	20		3.757	3.813	1.46	
Bromobenzene	1	0		7.48	18.64	20	20		2.054	1.914	6.81	
1,3,5-Trimethylbenzene	1	0		7.60	18.25	20	20		2.329	2.125	8.77	
Butyl methacrylate	1	0		7.60	16.10	20	20	0.5	0.764	0.615	19.49	
t-Butylbenzene	1	0		7.79	18.15	20	20		2.588	2.349	9.26	
1,2,4-Trimethylbenzene	1	0		7.82	18.43	20	20		2.527	2.328	7.86	
sec-Butylbenzene	1	0		7.92	20.96	20	20		3.047	3.193	4.82	
4-Isopropyltoluene	1	0		7.99	18.59	20	20		2.558	2.377	7.04	
n-Butylbenzene	1	0		8.23	14.34	20	20		2.616	1.875	28.31	C1
p-Diethylbenzene	1	0		8.21	11.23	20	20		1.517	1.092	43.83	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.06	20	20		1.406	1.129	19.69	
1,2-Dibromo-3-Chloropropane	1	0		8.73	14.64	20	20	0.05	0.225	0.165	26.81	C1
Camphor	1	0		9.16	181.74	200	20		0.054	0.044	9.13	
Hexachlorobutadiene	1	0		9.31	15.97	20	20		0.348	0.278	20.13	
1,2,4-Trichlorobenzene	1	0		9.23	16.16	20	20	0.2	0.891	0.720	19.20	
1,2,3-Trichlorobenzene	1	0		9.52	15.38	20	20		0.753	0.579	23.12	C1
Naphthalene	1	0		9.38	11.67	20	20		1.954	1.385	41.67	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	12.32	20	20	0.1	0.425	0.262	38.41	C1
Dichlorodifluoromethane	1	0		1.64	7.91	20	20	0.1	0.171	0.068	60.45	C1
Chloromethane	1	0		1.82	16.16	20	20	0.1	0.284	0.229	19.22	
Bromomethane	1	0		2.23	16.68	20	20	0.1	0.281	0.235	16.59	
Vinyl Chloride	1	0		1.92	17.84	20	20	0.1	0.359	0.321	10.78	
Chloroethane	1	0		2.32	17.87	20	20	0.1	0.253	0.226	10.63	
Trichlorofluoromethane	1	0		2.56	20.55	20	20	0.1	0.532	0.547	2.73	
Ethyl ether	1	0		2.80	17.48	20	20	0.5	0.336	0.294	12.61	
Furan	1	0		2.84	17.75	20	20	0.5	0.475	0.422	11.24	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	35.09	20	20	0.1	0.338	0.593	75.43	C1
Methylene Chloride	1	0		3.42	16.63	20	20	0.1	0.425	0.353	16.87	
Acrolein	1	0		2.91	117.59	100	20		0.049	0.058	17.59	
Acrylonitrile	1	0		3.62	23.96	20	20		0.123	0.147	19.78	
Iodomethane	1	0		3.15	10.98	20	20		0.520	0.285	45.11	C1
Acetone	1	0		3.04	140.97	100	20	0.1	0.062	0.087	40.97	C1
Carbon Disulfide	1	0		3.23	16.04	20	20	0.1	1.043	0.837	19.78	
t-Butyl Alcohol	1	0		3.49	193.03	100	20		0.015	0.029	93.03	C1
n-Hexane	1	0		3.90	34.36	20	20		0.332	0.571	71.78	C1
Di-isopropyl-ether	1	0		4.06	31.45	20	20		0.968	1.522	57.24	C1
1,1-Dichloroethene	1	0		3.01	16.37	20	20	0.1	0.489	0.400	18.15	
Methyl Acetate	1	0		3.32	23.59	20	20	0.1	0.266	0.314	17.94	
Methyl-t-butyl ether	1	0		3.66	34.43	20	20	0.1	0.916	1.577	72.16	C1
1,1-Dichloroethane	1	0		4.01	16.14	20	20	0.2	0.650	0.525	19.30	
trans-1,2-Dichloroethene	1	0		3.67	17.16	20	20	0.1	0.417	0.358	14.23	
Ethyl-t-butyl ether	1	0		4.32	17.48	20	20	0.5	0.890	0.778	12.58	
cis-1,2-Dichloroethene	1	0		4.43	16.97	20	20	0.1	0.587	0.498	15.14	
Bromochloromethane	1	0		4.58	18.00	20	20		0.280	0.252	9.99	
2,2-Dichloropropane	1	0		4.43	20.90	20	20		0.405	0.423	4.48	
Ethyl acetate	1	0		4.45	16.81	20	20		0.301	0.253	15.94	
1,4-Dioxane	1	0		5.51	2399.59	1000	20		0.001	0.002	139.96	C1
1,1-Dichloropropene	1	0		4.84	18.13	20	20		0.496	0.449	9.33	
Chloroform	1	0		4.62	17.28	20	20	0.2	0.697	0.602	13.61	
Dibromofluoromethane	1	0	S	4.72	28.75	30	**		0.286	0.274	4.16	
Cyclohexane	1	0		4.79	34.20	20	20	0.1	0.470	0.803	70.98	C1
1,2-Dichloroethane-d4	1	0	S	4.92	25.61	30	**		0.131	0.112	14.64	
1,2-Dichloroethane	1	0		4.96	17.77	20	20	0.1	0.442	0.393	11.15	
2-Butanone	1	0		4.42	20.78	20	20	0.1	0.106	0.110	3.90	
1,1,1-Trichloroethane	1	0		4.75	19.03	20	20	0.1	0.580	0.552	4.83	
Carbon Tetrachloride	1	0		4.85	19.59	20	20	0.1	0.528	0.517	2.04	
Vinyl Acetate	1	0		4.05	23.90	20	20		0.787	0.941	19.52	
Bromodichloromethane	1	0		5.58	21.03	20	20	0.2	0.536	0.563	5.16	
Methylcyclohexane	1	0		5.44	34.51	20	20	0.1	0.497	0.858	72.53	C1
Dibromomethane	1	0		5.51	22.17	20	20		0.312	0.346	10.83	
1,2-Dichloropropane	1	0		5.45	16.10	20	20	0.1	0.390	0.314	19.50	
Trichloroethene	1	0		5.32	19.10	20	20	0.2	0.467	0.446	4.51	
Benzene	1	0		4.97	18.11	20	20	0.5	1.527	1.383	9.43	
tert-Amyl methyl ether	1	0		5.01	18.11	20	20		0.903	0.818	9.44	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	12.44	20	20	0.5	0.613	0.381	37.82	C1
Methyl methacrylate	1	0		5.47	18.99	20	20	0.5	0.282	0.268	5.03	
Dibromochloromethane	1	0		6.43	16.98	20	20	0.1	0.561	0.477	15.09	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	15.19	20	20		0.198	0.150	24.05	C1
cis-1,3-Dichloropropene	1	0		5.82	16.20	20	20	0.2	0.724	0.586	19.02	
trans-1,3-Dichloropropene	1	0		6.10	16.46	20	20	0.1	0.611	0.503	17.68	
Ethyl methacrylate	1	0		6.12	16.78	20	20	0.5	0.302	0.253	16.09	
1,1,2-Trichloroethane	1	0		6.21	16.25	20	20	0.1	0.460	0.374	18.73	
1,2-Dibromoethane	1	0		6.51	16.60	20	20	0.1	0.472	0.392	17.00	
1,3-Dichloropropane	1	0		6.31	16.23	20	20		0.743	0.603	18.87	
4-Methyl-2-Pentanone	1	0		5.89	16.66	20	20	0.1	0.293	0.244	16.71	
2-Hexanone	1	0		6.32	16.90	20	20	0.1	0.192	0.162	15.50	
Tetrachloroethene	1	0		6.31	17.65	20	20	0.2	0.426	0.376	11.73	
Toluene-d8	1	0	S	5.98	27.07	30	**		1.126	1.017	9.75	
Toluene	1	0		6.01	16.23	20	20	0.4	1.154	0.936	18.87	
1,1,1,2-Tetrachloroethane	1	0		6.80	17.24	20	20		0.485	0.418	13.80	
Chlorobenzene	1	0		6.77	17.83	20	20	0.5	1.315	1.172	10.85	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	17.55	20	20	0.5	1.289	1.131	12.25	
n-Amyl acetate	1	0		7.12	16.26	20	20	0.5	1.030	0.994	18.72	
Bromoform	1	0		7.21	17.14	20	20	0.1	0.701	0.601	14.28	
Ethylbenzene	1	0		6.81	15.75	20	20	0.1	0.971	0.765	21.27	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.00	20	20	0.1	1.053	0.842	20.01	
Bromofluorobenzene	1	0	S	7.38	31.13	30	**		0.757	0.786	3.78	
Styrene	1	0		7.09	18.78	20	20	0.3	2.303	2.163	6.11	
m&p-Xylenes	1	0		6.87	35.78	40	20	0.1	1.336	1.195	10.55	
o-Xylene	1	0		7.09	18.88	20	20	0.3	1.439	1.358	5.61	
trans-1,4-Dichloro-2-butene	1	0		7.46	23.36	20	20		0.293	0.342	16.80	
1,3-Dichlorobenzene	1	0		8.01	16.65	20	20	0.6	1.818	1.513	16.75	
1,4-Dichlorobenzene	1	0		8.06	18.62	20	20	0.5	1.833	1.707	6.91	
1,2-Dichlorobenzene	1	0		8.28	16.54	20	20	0.4	1.739	1.438	17.32	
Isopropylbenzene	1	0		7.28	18.40	20	20	0.1	3.325	3.059	7.99	
Cyclohexanone	1	0		7.35	226.67	100	20		0.008	0.014	126.67	C1
Camphene	1	0		7.46	17.79	20	20		0.828	0.737	11.07	
1,2,3-Trichloropropane	1	0		7.47	19.23	20	20		1.173	1.128	3.83	
2-Chlorotoluene	1	0		7.58	16.83	20	20		2.119	1.783	15.84	
p-Ethyltoluene	1	0		7.57	17.35	20	20		3.491	3.028	13.26	
4-Chlorotoluene	1	0		7.63	16.73	20	20		2.076	1.736	16.37	
n-Propylbenzene	1	0		7.51	17.55	20	20		3.757	3.297	12.25	
Bromobenzene	1	0		7.48	17.07	20	20		2.054	1.754	14.63	
1,3,5-Trimethylbenzene	1	0		7.60	17.45	20	20		2.329	2.033	12.74	
Butyl methacrylate	1	0		7.60	16.48	20	20	0.5	0.764	0.630	17.58	
t-Butylbenzene	1	0		7.79	17.32	20	20		2.588	2.242	13.39	
1,2,4-Trimethylbenzene	1	0		7.82	17.25	20	20		2.527	2.179	13.77	
sec-Butylbenzene	1	0		7.92	17.60	20	20		3.047	2.681	12.00	
4-Isopropyltoluene	1	0		7.99	17.08	20	20		2.558	2.184	14.61	
n-Butylbenzene	1	0		8.23	17.56	20	20		2.616	2.296	12.23	
p-Diethylbenzene	1	0		8.21	13.40	20	20		1.517	1.302	33.01	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	17.50	20	20		1.406	1.230	12.52	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.16	20	20	0.05	0.225	0.182	19.19	
Camphor	1	0		9.16	191.01	200	20		0.054	0.047	4.49	
Hexachlorobutadiene	1	0		9.31	18.20	20	20		0.348	0.317	9.01	
1,2,4-Trichlorobenzene	1	0		9.23	16.91	20	20	0.2	0.891	0.753	15.47	
1,2,3-Trichlorobenzene	1	0		9.52	15.83	20	20		0.753	0.596	20.85	C1
Naphthalene	1	0		9.38	11.87	20	20		1.954	1.409	40.66	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	11.56	20	20	0.1	0.425	0.246	42.18	C1
Dichlorodifluoromethane	1	0		1.64	7.11	20	20	0.1	0.171	0.061	64.44	C1
Chloromethane	1	0		1.82	9.37	20	20	0.1	0.284	0.133	53.16	C1
Bromomethane	1	0		2.23	16.12	20	20	0.1	0.281	0.227	19.39	
Vinyl Chloride	1	0		1.92	17.72	20	20	0.1	0.359	0.318	11.41	
Chloroethane	1	0		2.32	16.04	20	20	0.1	0.253	0.203	19.80	
Trichlorofluoromethane	1	0		2.55	20.17	20	20	0.1	0.532	0.537	0.85	
Ethyl ether	1	0		2.80	23.23	20	20	0.5	0.336	0.390	16.16	
Furan	1	0		2.84	21.66	20	20	0.5	0.475	0.515	8.31	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	46.03	20	20	0.1	0.338	0.778	130.13	C1
Methylene Chloride	1	0		3.42	16.24	20	20	0.1	0.425	0.345	18.82	
Acrolein	1	0		2.91	139.65	100	20		0.049	0.069	39.65	C1
Acrylonitrile	1	0		3.62	23.92	20	20		0.123	0.147	19.61	
Iodomethane	1	0		3.16	16.33	20	20		0.520	0.424	18.37	
Acetone	1	0		3.04	192.59	100	20	0.1	0.062	0.119	92.59	C1
Carbon Disulfide	1	0		3.23	20.55	20	20	0.1	1.043	1.072	2.77	
t-Butyl Alcohol	1	0		3.49	198.30	100	20		0.015	0.030	98.30	C1
n-Hexane	1	0		3.90	29.66	20	20		0.332	0.493	48.31	C1
Di-isopropyl-ether	1	0		4.06	30.98	20	20		0.968	1.499	54.92	C1
1,1-Dichloroethene	1	0		3.01	21.84	20	20	0.1	0.489	0.534	9.18	
Methyl Acetate	1	0		3.32	29.25	20	20	0.1	0.266	0.389	46.23	C1
Methyl-t-butyl ether	1	0		3.66	34.67	20	20	0.1	0.916	1.588	73.35	C1
1,1-Dichloroethane	1	0		4.01	15.96	20	20	0.2	0.650	0.519	20.21	
trans-1,2-Dichloroethene	1	0		3.67	16.27	20	20	0.1	0.417	0.339	18.63	
Ethyl-t-butyl ether	1	0		4.32	17.43	20	20	0.5	0.890	0.776	12.87	
cis-1,2-Dichloroethene	1	0		4.43	16.15	20	20	0.1	0.587	0.474	19.27	
Bromochloromethane	1	0		4.58	17.83	20	20		0.280	0.250	10.87	
2,2-Dichloropropane	1	0		4.43	16.31	20	20		0.405	0.330	18.46	
Ethyl acetate	1	0		4.45	16.04	20	20		0.301	0.241	19.79	
1,4-Dioxane	1	0		5.51	2441.38	1000	20		0.001	0.002	144.14	C1
1,1-Dichloropropene	1	0		4.84	17.11	20	20		0.496	0.424	14.43	
Chloroform	1	0		4.62	16.89	20	20	0.2	0.697	0.589	15.55	
Dibromofluoromethane	1	0	S	4.72	30.09	30	**		0.286	0.287	0.31	
Cyclohexane	1	0		4.79	32.17	20	20	0.1	0.470	0.756	60.87	C1
1,2-Dichloroethane-d4	1	0	S	4.92	27.25	30	**		0.131	0.119	9.17	
1,2-Dichloroethane	1	0		4.96	17.65	20	20	0.1	0.442	0.390	11.77	
2-Butanone	1	0		4.43	19.43	20	20	0.1	0.106	0.103	2.86	
1,1,1-Trichloroethane	1	0		4.75	17.56	20	20	0.1	0.580	0.509	12.22	
Carbon Tetrachloride	1	0		4.85	18.44	20	20	0.1	0.528	0.487	7.81	
Vinyl Acetate	1	0		4.05	23.74	20	20		0.787	0.935	18.72	
Bromodichloromethane	1	0		5.58	17.70	20	20	0.2	0.536	0.474	11.49	
Methylcyclohexane	1	0		5.44	32.30	20	20	0.1	0.497	0.803	61.50	C1
Dibromomethane	1	0		5.51	19.25	20	20		0.312	0.301	3.77	
1,2-Dichloropropane	1	0		5.45	16.54	20	20	0.1	0.390	0.323	17.28	
Trichloroethene	1	0		5.32	18.48	20	20	0.2	0.467	0.431	7.62	
Benzene	1	0		4.97	17.48	20	20	0.5	1.527	1.335	12.59	
tert-Amyl methyl ether	1	0		5.01	17.96	20	20		0.903	0.811	10.22	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	17.82	20	20	0.5	0.613	0.546	10.92	
Methyl methacrylate	1	0		5.47	16.68	20	20	0.5	0.282	0.235	16.58	
Dibromochloromethane	1	0		6.43	16.47	20	20	0.1	0.561	0.462	17.64	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	16.01	20	20		0.198	0.159	19.93	
cis-1,3-Dichloropropene	1	0		5.82	17.80	20	20	0.2	0.724	0.644	10.98	
trans-1,3-Dichloropropene	1	0		6.10	16.82	20	20	0.1	0.611	0.514	15.92	
Ethyl methacrylate	1	0		6.12	18.63	20	20	0.5	0.302	0.281	6.86	
1,1,2-Trichloroethane	1	0		6.21	18.19	20	20	0.1	0.460	0.418	9.05	
1,2-Dibromoethane	1	0		6.51	17.59	20	20	0.1	0.472	0.415	12.06	
1,3-Dichloropropane	1	0		6.31	16.65	20	20		0.743	0.618	16.73	
4-Methyl-2-Pentanone	1	0		5.89	16.29	20	20	0.1	0.293	0.239	18.53	
2-Hexanone	1	0		6.32	16.37	20	20	0.1	0.192	0.157	18.17	
Tetrachloroethene	1	0		6.31	16.37	20	20	0.2	0.426	0.348	18.16	
Toluene-d8	1	0	S	5.98	27.76	30	**		1.126	1.042	7.48	
Toluene	1	0		6.01	16.06	20	20	0.4	1.154	0.926	19.72	
1,1,1,2-Tetrachloroethane	1	0		6.80	16.88	20	20		0.485	0.410	15.61	
Chlorobenzene	1	0		6.77	17.42	20	20	0.5	1.315	1.145	12.90	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.99	20	20	0.5	1.289	1.095	15.04	
n-Amyl acetate	1	0		7.13	11.07	20	20	0.5	1.030	0.676	44.66	C1
Bromoform	1	0		7.21	16.09	20	20	0.1	0.701	0.564	19.55	
Ethylbenzene	1	0		6.81	14.91	20	20	0.1	0.971	0.724	25.44	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.02	20	20	0.1	1.053	0.843	19.89	
Bromofluorobenzene	1	0	S	7.38	31.44	30	**		0.757	0.793	4.81	
Styrene	1	0		7.09	16.22	20	20	0.3	2.303	1.868	18.88	
m&p-Xylenes	1	0		6.87	32.70	40	20	0.1	1.336	1.092	18.24	
o-Xylene	1	0		7.09	15.32	20	20	0.3	1.439	1.102	23.38	C1
trans-1,4-Dichloro-2-butene	1	0		7.46	22.06	20	20		0.293	0.323	10.28	
1,3-Dichlorobenzene	1	0		8.01	16.37	20	20	0.6	1.818	1.488	18.13	
1,4-Dichlorobenzene	1	0		8.06	16.06	20	20	0.5	1.833	1.472	19.71	
1,2-Dichlorobenzene	1	0		8.28	16.33	20	20	0.4	1.739	1.420	18.36	
Isopropylbenzene	1	0		7.28	16.27	20	20	0.1	3.325	2.704	18.67	
Cyclohexanone	1	0		7.35	117.99	100	20		0.008	0.007	17.99	
Camphene	1	0		7.46	16.20	20	20		0.828	0.671	18.99	
1,2,3-Trichloropropane	1	0		7.46	16.77	20	20		1.173	0.983	16.17	
2-Chlorotoluene	1	0		7.58	16.23	20	20		2.119	1.719	18.87	
p-Ethyltoluene	1	0		7.57	16.42	20	20		3.491	2.865	17.92	
4-Chlorotoluene	1	0		7.63	15.93	20	20		2.076	1.654	20.34	
n-Propylbenzene	1	0		7.51	17.37	20	20		3.757	3.263	13.17	
Bromobenzene	1	0		7.48	17.97	20	20		2.054	1.846	10.14	
1,3,5-Trimethylbenzene	1	0		7.60	16.27	20	20		2.329	1.895	18.66	
Butyl methacrylate	1	0		7.60	18.34	20	20	0.5	0.764	0.701	8.28	
t-Butylbenzene	1	0		7.79	16.00	20	20		2.588	2.070	20.02	
1,2,4-Trimethylbenzene	1	0		7.82	16.37	20	20		2.527	2.068	18.14	
sec-Butylbenzene	1	0		7.92	16.17	20	20		3.047	2.464	19.13	
4-Isopropyltoluene	1	0		7.99	16.43	20	20		2.558	2.101	17.87	
n-Butylbenzene	1	0		8.23	16.57	20	20		2.616	2.167	17.16	
p-Diethylbenzene	1	0		8.21	11.94	20	20		1.517	1.160	40.31	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.95	20	20		1.406	1.192	15.23	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.61	20	20	0.05	0.225	0.187	16.96	
Camphor	1	0		9.16	175.84	200	20		0.054	0.043	12.08	
Hexachlorobutadiene	1	0		9.31	16.52	20	20		0.348	0.288	17.39	
1,2,4-Trichlorobenzene	1	0		9.22	15.96	20	20	0.2	0.891	0.711	20.19	
1,2,3-Trichlorobenzene	1	0		9.52	15.96	20	20		0.753	0.601	20.19	
Naphthalene	1	0		9.38	12.60	20	20		1.954	1.497	36.99	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M123440.D	WMB106837	A	03/15/23 09:41	1		NA	NA	96	94	NA	112
5M123481.D	WMB106862	A	03/17/23 09:23	1		NA	NA	121	120	NA	134
5M123447.D	AD36716-001	A	03/15/23 12:27	1		NA	NA	34*	55	NA	62
5M123494.D	AD36716-013	A	03/17/23 14:33	1		NA	NA	91	91	NA	104
5M123495.D	AD36716-014	A	03/17/23 14:57	1		NA	NA	96	98	NA	124
5M123496.D	AD36716-015	A	03/17/23 15:20	1		NA	NA	121	127	NA	136
5M123497.D	AD36716-016(MS:AD36	A	03/17/23 15:44	1		NA	NA	123	113	NA	141
5M123498.D	AD36716-017(MSD:AD3	A	03/17/23 16:07	1		NA	NA	128	118	NA	141
5M123499.D	AD36716-018	A	03/17/23 16:31	1		NA	NA	105	102	NA	145
5M123500.D	AD36716-019	A	03/17/23 16:54	1		NA	NA	78	75	NA	101
5M123501.D	AD36716-020	A	03/17/23 17:18	1		NA	NA	104	113	NA	129
5M123502.D	AD36716-021	A	03/17/23 17:42	1		NA	NA	111	109	NA	145
5M123439.D	WMB106837(MS)	A	03/15/23 09:18	1		NA	NA	110	100	NA	115
5M123444.D	AD36590-031(T)	A	03/15/23 11:16	1		NA	NA	104	101	NA	119
5M123445.D	AD36590-031(T)(MS)	A	03/15/23 11:40	1		NA	NA	113	106	NA	116
5M123446.D	AD36590-031(T)(MSD)	A	03/15/23 12:04	1		NA	NA	112	100	NA	112
5M123480.D	WMB106862(MS)	A	03/17/23 08:59	1		NA	NA	125	122	NA	136

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 104579

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 104579

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	25	A031723A	24	228.5340	226.5550	.87		20
Chromium	104579	A031723A	25	A031723A	24	234.1970	231.8620	1		20
Copper	104579	A031723A	25	A031723A	24	233.1580	236.8990	1.6		20
Lead	104579	A031723A	25	A031723A	24	219.2180	218.4320	.36		20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	27	A031723A	26	1U	1U	---		20
Chromium	104579	A031723A	27	A031723A	26	1U	1.1460	---		20
Copper	104579	A031723A	27	A031723A	26	11.3700	8.2000	32	b	20
Lead	104579	A031723A	27	A031723A	26	3.6300	3.1320	15		20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD36716-017

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	30	A031723A	29	223.4040	230.8130	3.3		20
Chromium	104579	A031723A	30	A031723A	29	224.3790	232.4100	3.5		20
Copper	104579	A031723A	30	A031723A	29	224.7930	232.9890	3.6		20
Lead	104579	A031723A	30	A031723A	29	204.8260	212.3140	3.6		20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	104579	A031723A	28	A031723A	26	5	0.0580	0.3740	22	c	20
Chromium	104579	A031723A	28	A031723A	26	5	0.2150	1.1460	6.2		20
Copper	104579	A031723A	28	A031723A	26	5	1.7030	8.2000	---		20
Lead	104579	A031723A	28	A031723A	26	5	0.8420	3.1320	34	a	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M66140.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 3/17/2023 9:11:00 A Method: EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	5.22	5	20		0.908	0.949	4.48	
1,4-Dichlorobenzene-d4	1	0	I	5.80	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.99	5.75	5	20	0.01	1.131	1.300	14.95	
bis(2-Chloroethyl)ether	1	0		5.58	5.02		**		1.359			
2-Methylphenol	1	0		6.00	5.68	5	20		0.984	1.117	13.51	
Hexachloroethane	1	0		6.21	5.50	5	20	0.3	0.483	0.531	10.00	
3&4-Methylphenol	1	0		6.00	5.74	5	20		0.973	1.118	14.83	
Naphthalene-d8	1	0	I	6.80	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.10		**		0.213			
2,4-Dimethylphenol	1	0		6.54	2.72	5	20		0.173	0.094	45.53	C1
Naphthalene	1	0		6.82	4.63	5	20	0.7	1.020	0.945	7.37	
Hexachlorobutadiene	1	0		6.92	4.34	5	20	0.01	0.187	0.163	13.15	
Acenaphthene-d10	1	0	I	8.24	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.48	5.42	5	20		0.208	0.225	8.34	
2,4,5-Trichlorophenol	1	0		7.60	6.18		**		0.270			
2-Fluorobiphenyl	1	0	S	7.64	27.11		**		1.004			
Acenaphthylene	1	0		8.11	5.51	5	20	0.9	1.726	1.901	10.18	
Acenaphthene	1	0		8.26	5.06	5	20	0.9	1.133	1.147	1.21	
Dibenzofuran	1	0		8.42	4.68	5	20		1.624	1.519	6.45	
Fluorene	1	0		8.74	5.64	5	20	0.9	0.946	1.067	12.82	
Phenanthrene-d10	1	0	I	9.70	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	5.18	5	20	0.01	0.044	0.057	3.65	
1,2-Diphenylhydrazine	1	0		8.87	5.59	5	20		0.414	0.463	11.86	
Hexachlorobenzene	1	0		9.28	4.71	5	20	0.1	0.215	0.202	5.87	
Pentachlorophenol	1	0		9.48	5.27	5	20	0.05	0.069	0.094	5.38	
Phenanthrene	1	0		9.72	4.82	5	20	0.7	1.059	1.021	3.57	
Anthracene	1	0		9.77	5.16	5	20	0.7	0.885	0.913	3.25	
Carbazole	1	0		9.94	5.42	5	20	0.01	0.743	0.805	8.33	
Fluoranthene	1	0		11.05	5.73	5	20	0.6	0.993	1.138	14.62	
Chrysene-d12	1	0	I	12.74	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.31	4.83	5	20	0.6	2.716	2.625	3.34	
Terphenyl-d14	1	0	S	11.50	25.76		**		1.283			
Benzo[a]anthracene	1	0		12.73	6.10	5	20	0.8	1.281	1.563	22.03	C1
Chrysene	1	0		12.78	4.65	5	20	0.7	1.720	1.600	6.95	
Perylene-d12	1	0	I	14.37	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.96	5.83	5	20	0.7	1.602	1.868	16.65	
Benzo[k]fluoranthene	1	0		13.99	4.62	5	20	0.7	2.038	1.884	7.56	
Benzo[a]pyrene	1	0		14.31	5.49	5	20	0.7	1.509	1.658	9.89	
Indeno[1,2,3-cd]pyrene	1	0		15.67	5.81	5	20	0.5	1.765	2.052	16.28	
Dibenzo[a,h]anthracene	1	0		15.70	5.89	5	20	0.4	1.355	1.595	17.71	
Benzo[g,h,i]perylene	1	0		16.04	5.22	5	20	0.5	1.582	1.653	4.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

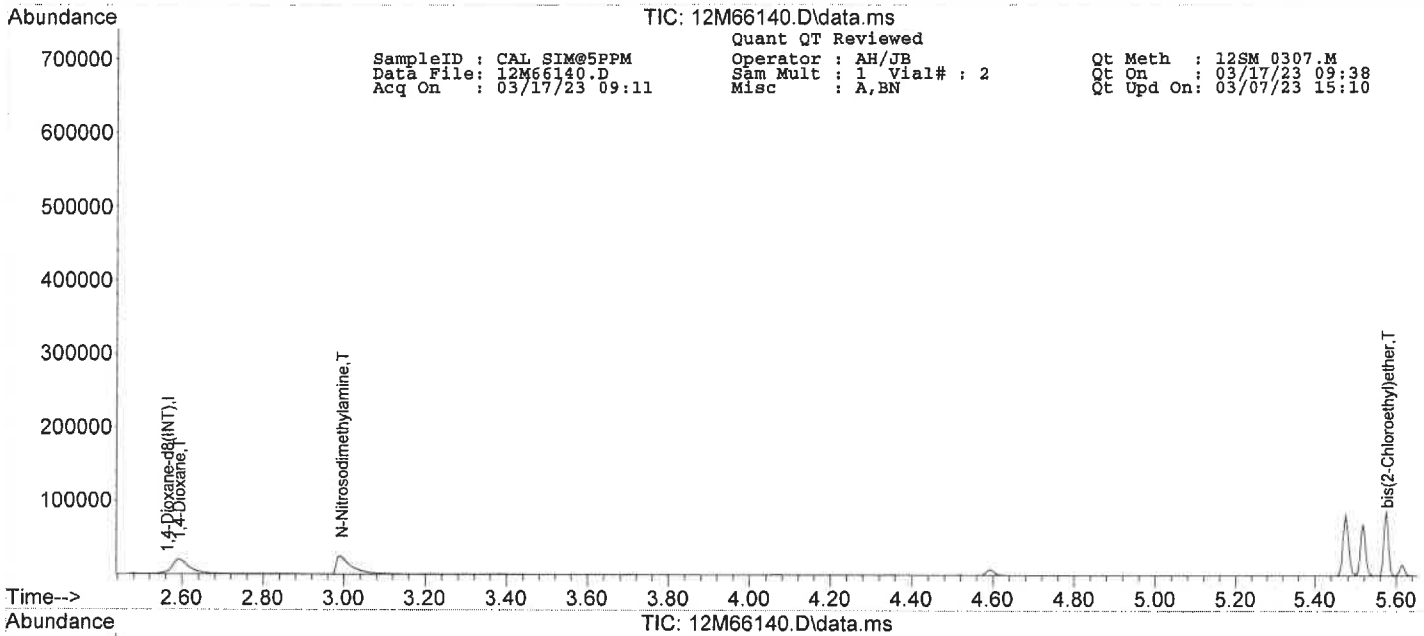
Quantitation Report (QT Reviewed)

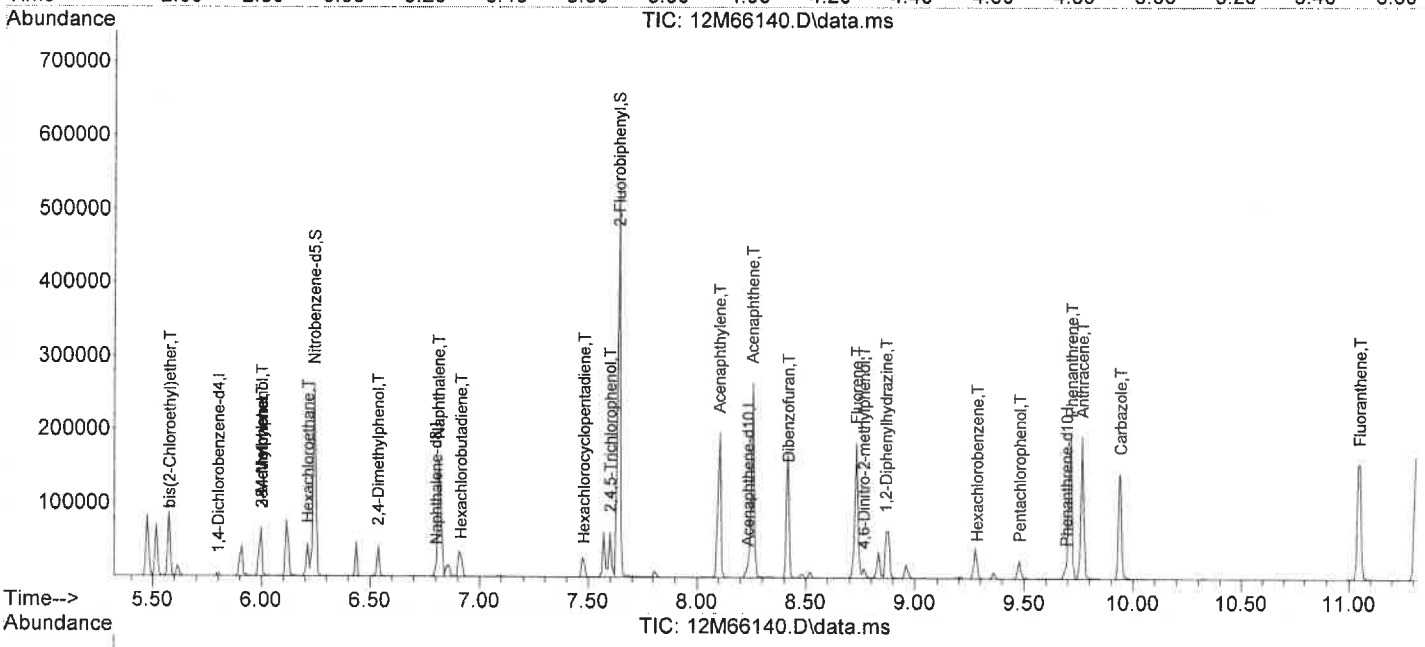
SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0307.M
Data File: 12M66140.D Sam Mult : 1 Vial# : 2 Qt On : 03/17/23 09:38
Acq On : 03/17/23 09:11 Misc : A,BN Qt Upd On: 03/07/23 15:10

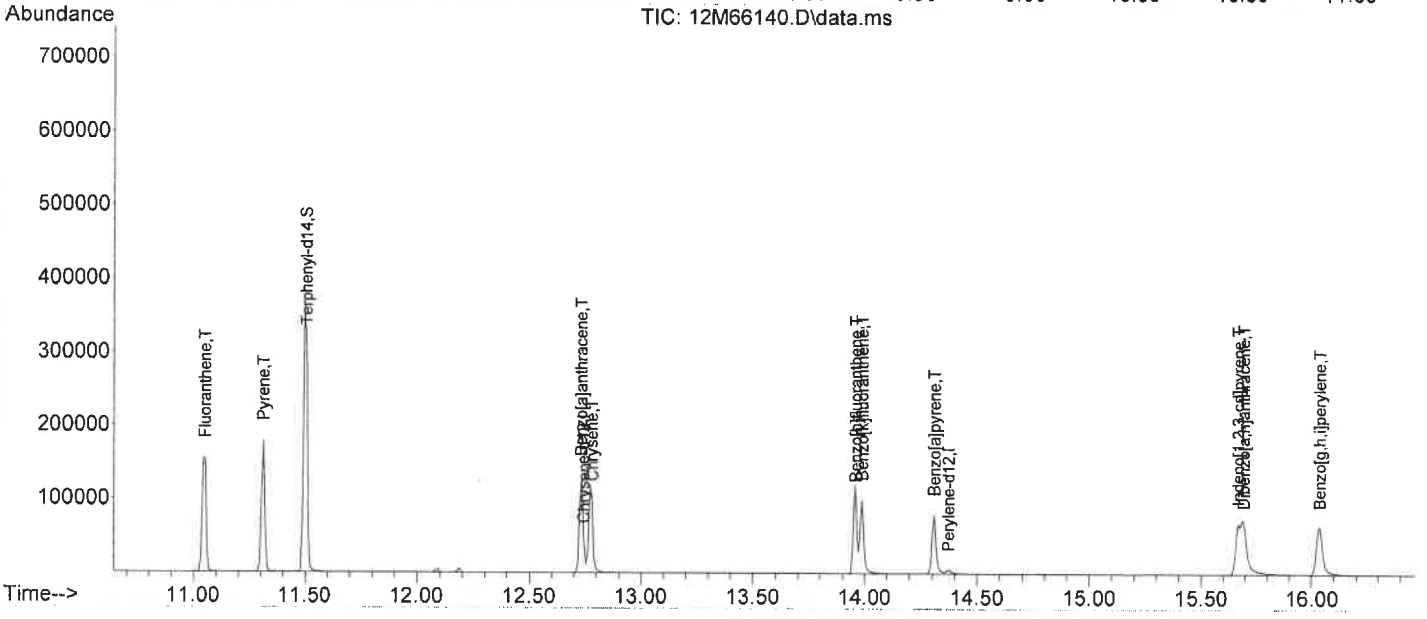
Data Path : G:\GcMsData\2023\GCMS_12SM\Data\03-17-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.564	96	26360m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.801	152	24820	0.40	ng	0.00
9) Naphthalene-d8	6.805	136	118851	0.40	ng	0.00
14) Acenaphthene-d10	8.237	164	60628	0.40	ng	0.00
22) Phenanthrene-d10	9.695	188	122015	0.40	ng	0.00
31) Chrysene-d12	12.744	240	51332m	0.40	ng	0.00
36) Perylene-d12	14.370	264	40436m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.243	82	1586654	25.10	ng	0.00
Spiked Amount 50.000			Recovery = 50.20%			
17) 2-Fluorobiphenyl	7.642	172	3327583	27.11	ng	0.00
Spiked Amount 50.000			Recovery = 54.22%			
33) Terphenyl-d14	11.502	244	3396700	25.76	ng	0.00
Spiked Amount 50.000			Recovery = 51.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.592	88	312581m	5.2240	ng	
4) N-Nitrosodimethylamine	2.994	74	403252	5.7475	ng	83
5) bis(2-Chloroethyl)ether	5.578	93	423025	5.0151	ng	83
6) 2-Methylphenol	5.998	108	346704	5.6755	ng	79
7) Hexachloroethane	6.215	201	164805	5.5000	ng	94
8) 3&4-Methylphenol	5.999	108	346759	5.7414	ng	79
11) 2,4-Dimethylphenol	6.537	107	139690	2.7233	ng	73
12) Naphthalene	6.817	128	1404053	4.6316	ng	100
13) Hexachlorobutadiene	6.916	225	241420	4.3427	ng	44
15) Hexachlorocyclopentadiene	7.481	237	170362	5.4168	ng	73
16) 2,4,5-Trichlorophenol	7.599	196	252484m	6.1790	ng	
18) Acenaphthylene	8.107	152	1440886	5.5091	ng	99
19) Acenaphthene	8.258	153	869237	5.0603	ng	78
20) Dibenzofuran	8.417	168	1151405	4.6773	ng	98
21) Fluorene	8.735	166	808615	5.6412	ng	91
23) 4,6-Dinitro-2-methylph...	8.769	198	87070	5.1823	ng	76
24) 1,2-Diphenylhydrazine	8.874	77	706178	5.5932	ng	80
25) Hexachlorobenzene	9.281	284	308484	4.7064	ng	86
26) Pentachlorophenol	9.480	266	143558	5.2691	ng	94
27) Phenanthrene	9.715	178	1557036	4.8214	ng	100
28) Anthracene	9.768	178	1393189	5.1624	ng	98
29) Carbazole	9.942	167	1227262	5.4163	ng	97
30) Fluoranthene	11.048	202	1735192	5.7309	ng	92
32) Pyrene	11.313	202	1684510	4.8332	ng	93
34) Benzo[a]anthracene	12.735	228	1002767m	6.1017	ng	
35) Chrysene	12.777	228	1026778	4.6527	ng	97
37) Benzo[b]fluoranthene	13.958	252	944321	5.8324	ng	91
38) Benzo[k]fluoranthene	13.988	252	952108	4.6220	ng	98
39) Benzo[a]pyrene	14.310	252	837922	5.4947	ng	93
40) Indeno[1,2,3-cd]pyrene	15.671	276	1037084	5.8138	ng	98
41) Dibenzo[a,h]anthracene	15.695	278	806293	5.8855	ng	99
42) Benzo[g,h,i]perylene	16.039	276	835258	5.2219	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M66140.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M66140.D
Acq On : 03/17/23 09:11
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0307.M
Qt On : 03/17/23 09:38
Qt Upd On: 03/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M66140.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Time-->


Abundance
TIC: 12M66140.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 691163

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of α-Chlordane and γ-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.176	612.4E6	930.1E6	74.775	73.714
45)DCB-Surrogate	8.621	8.990	288.8E6	418.7E6	40.463m	40.248

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

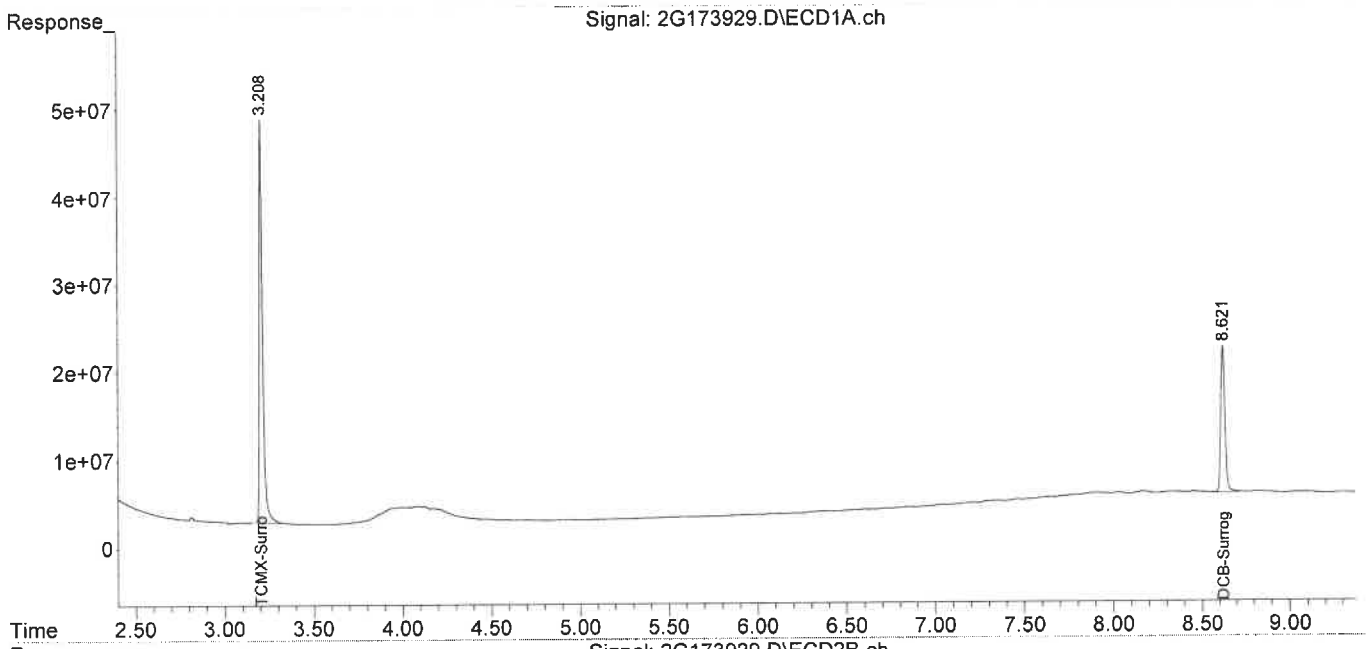
dhc

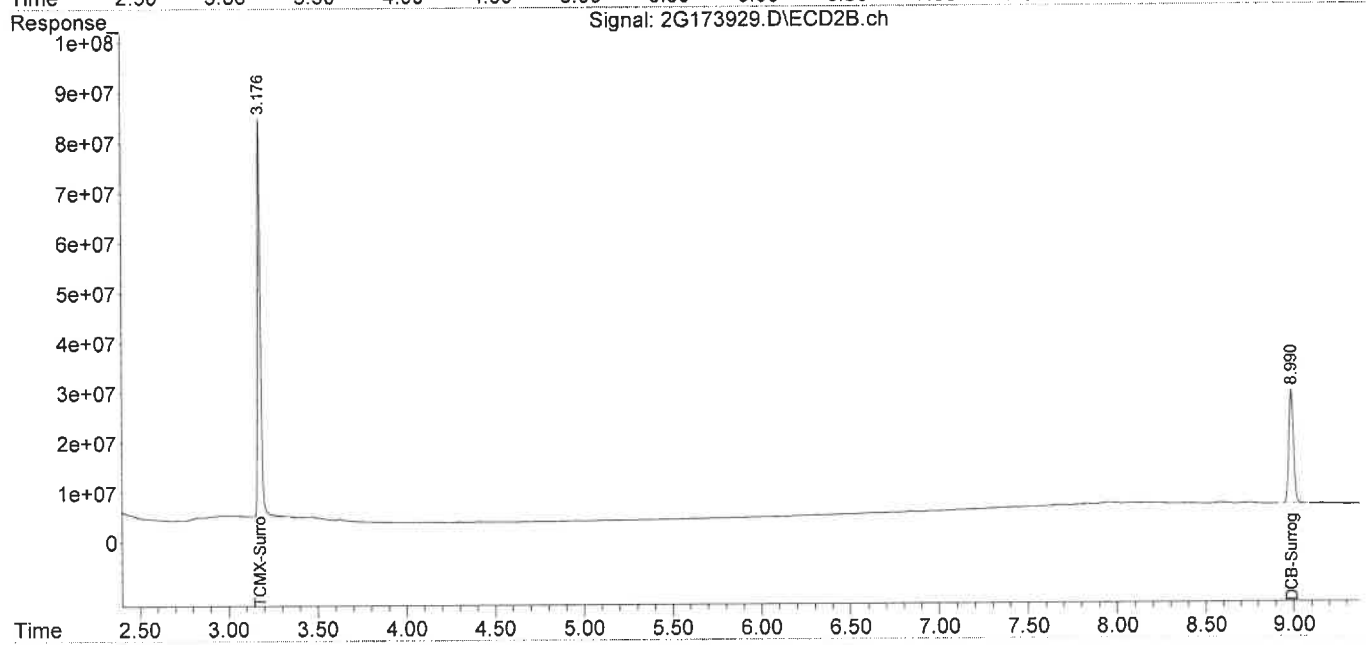
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

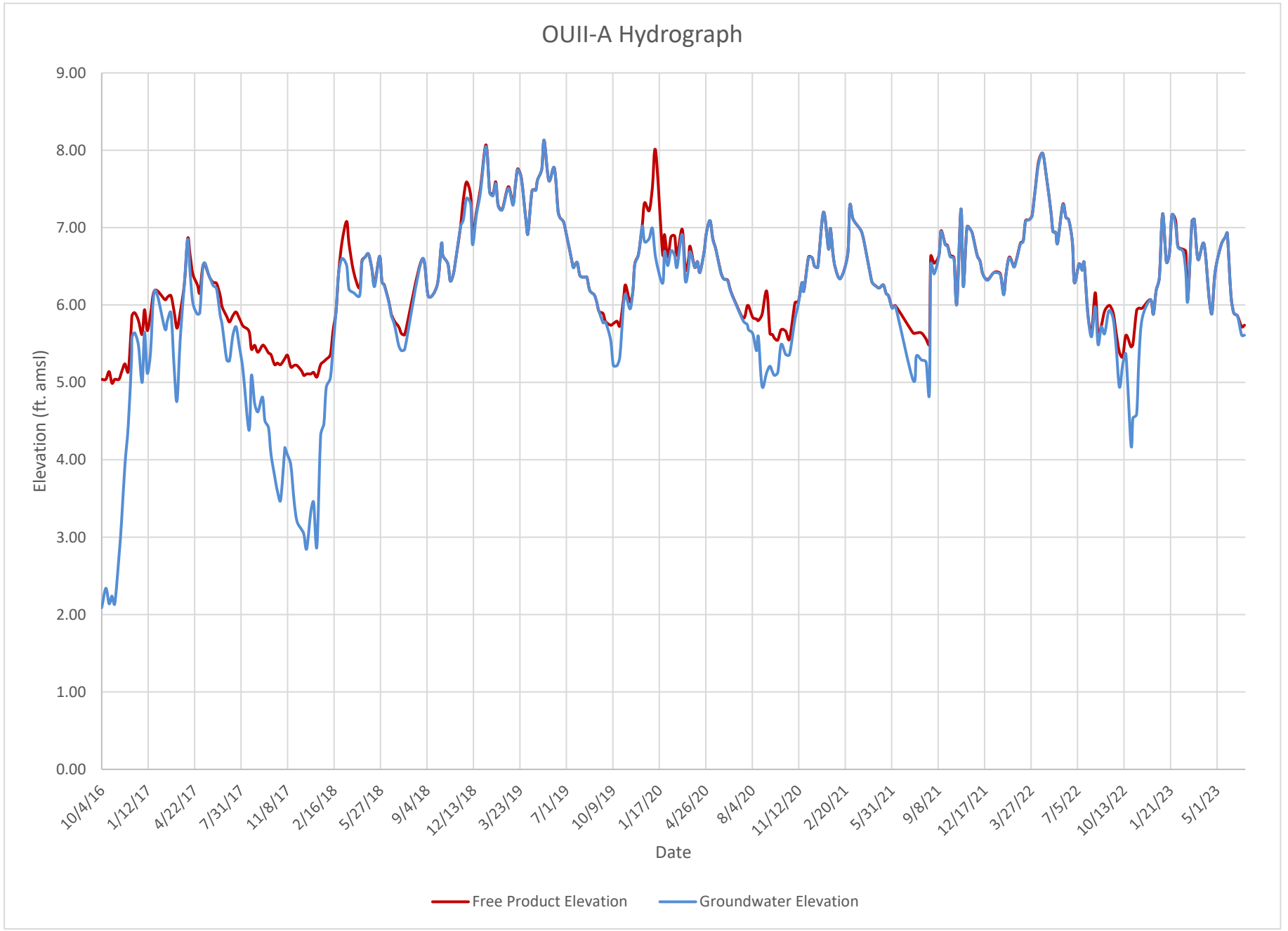
Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

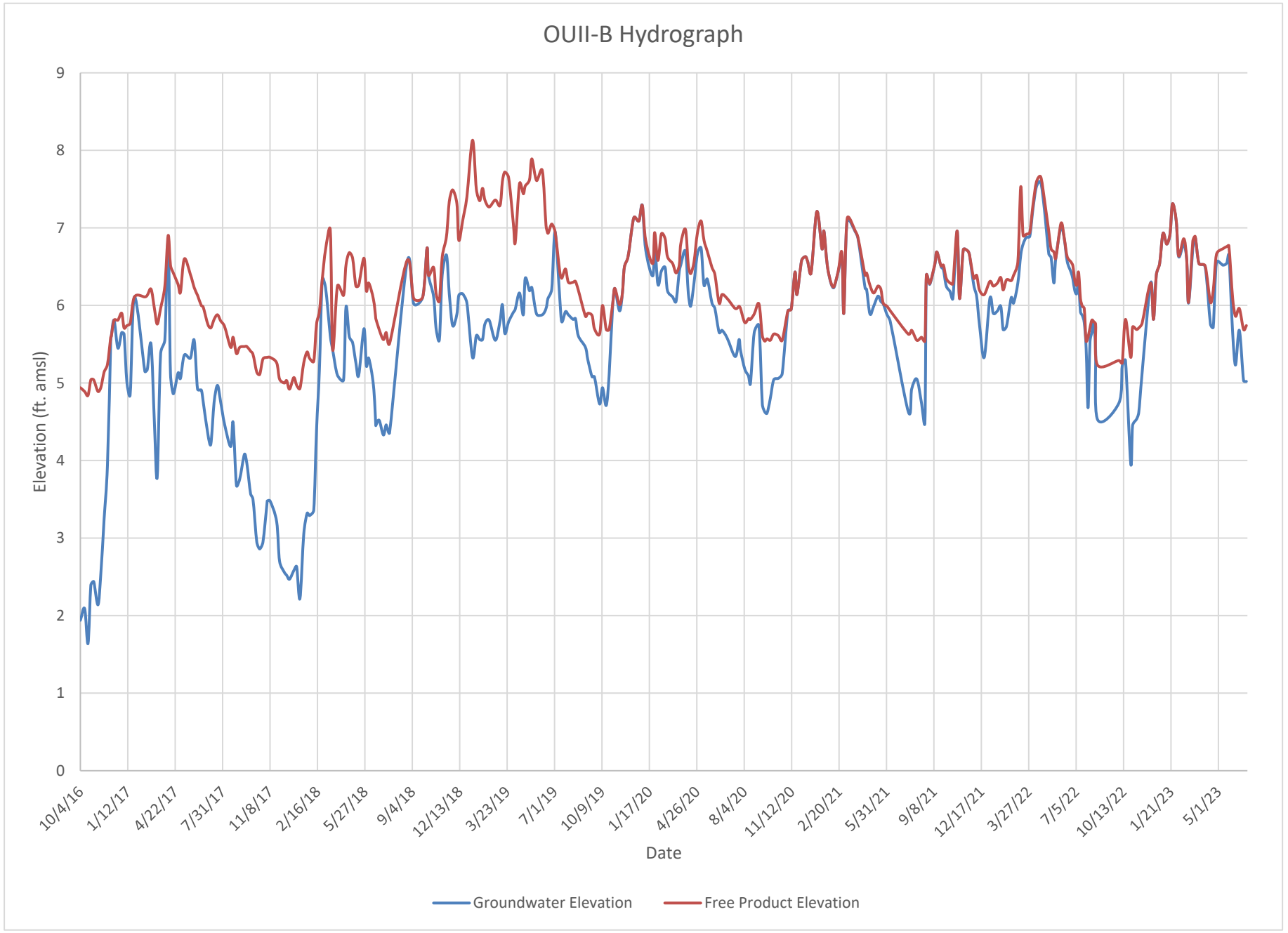


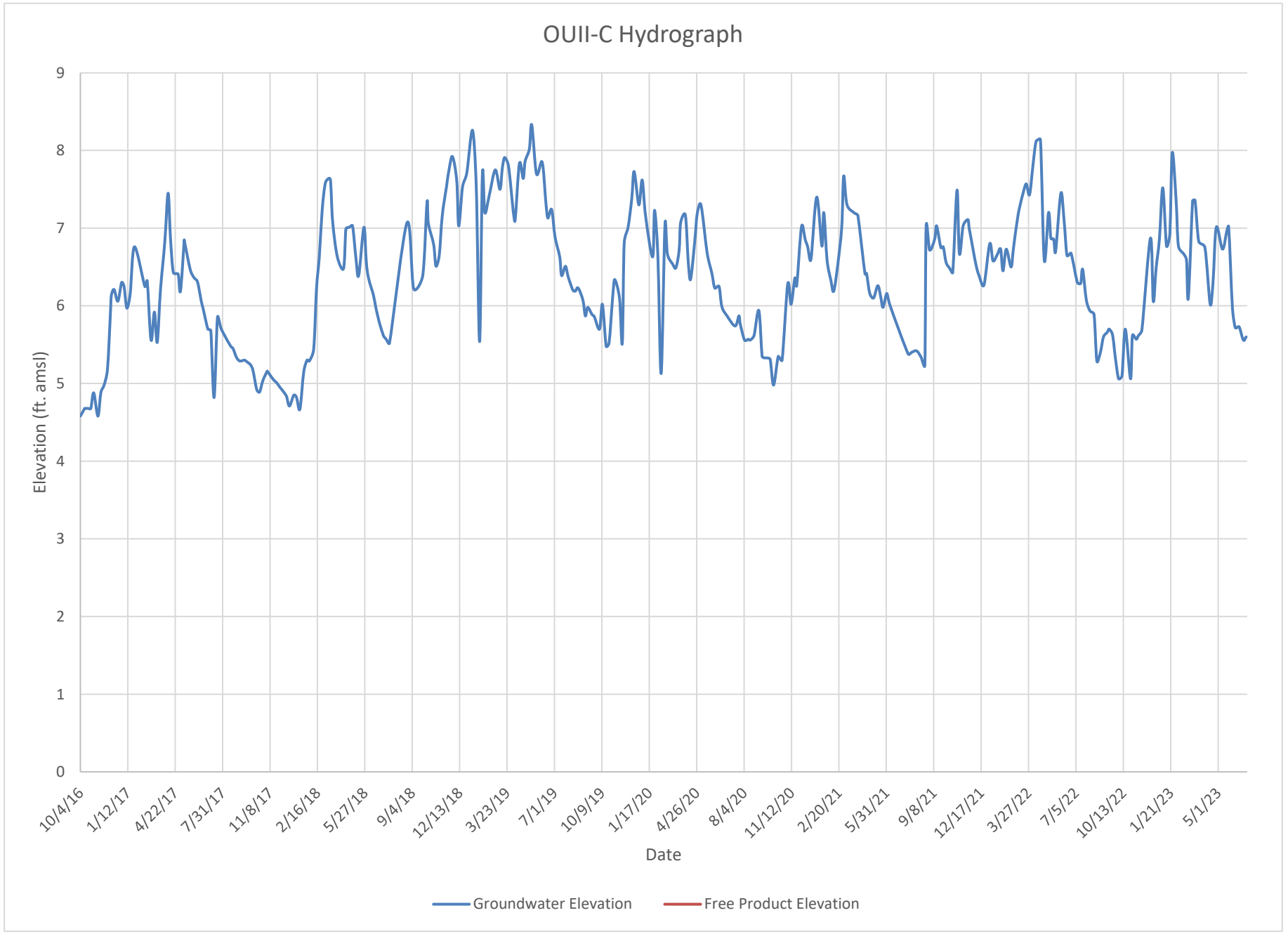


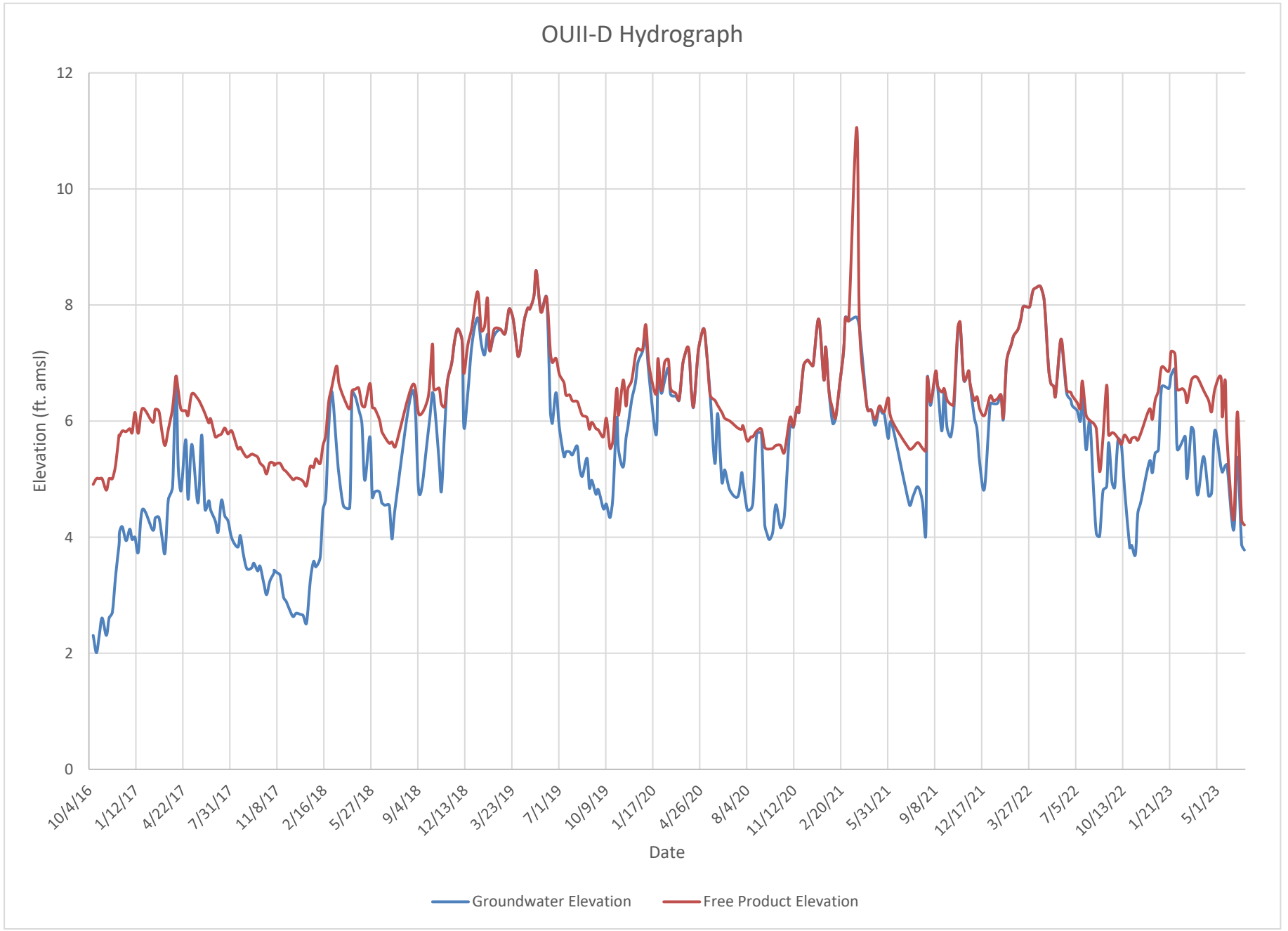
ATTACHMENT C

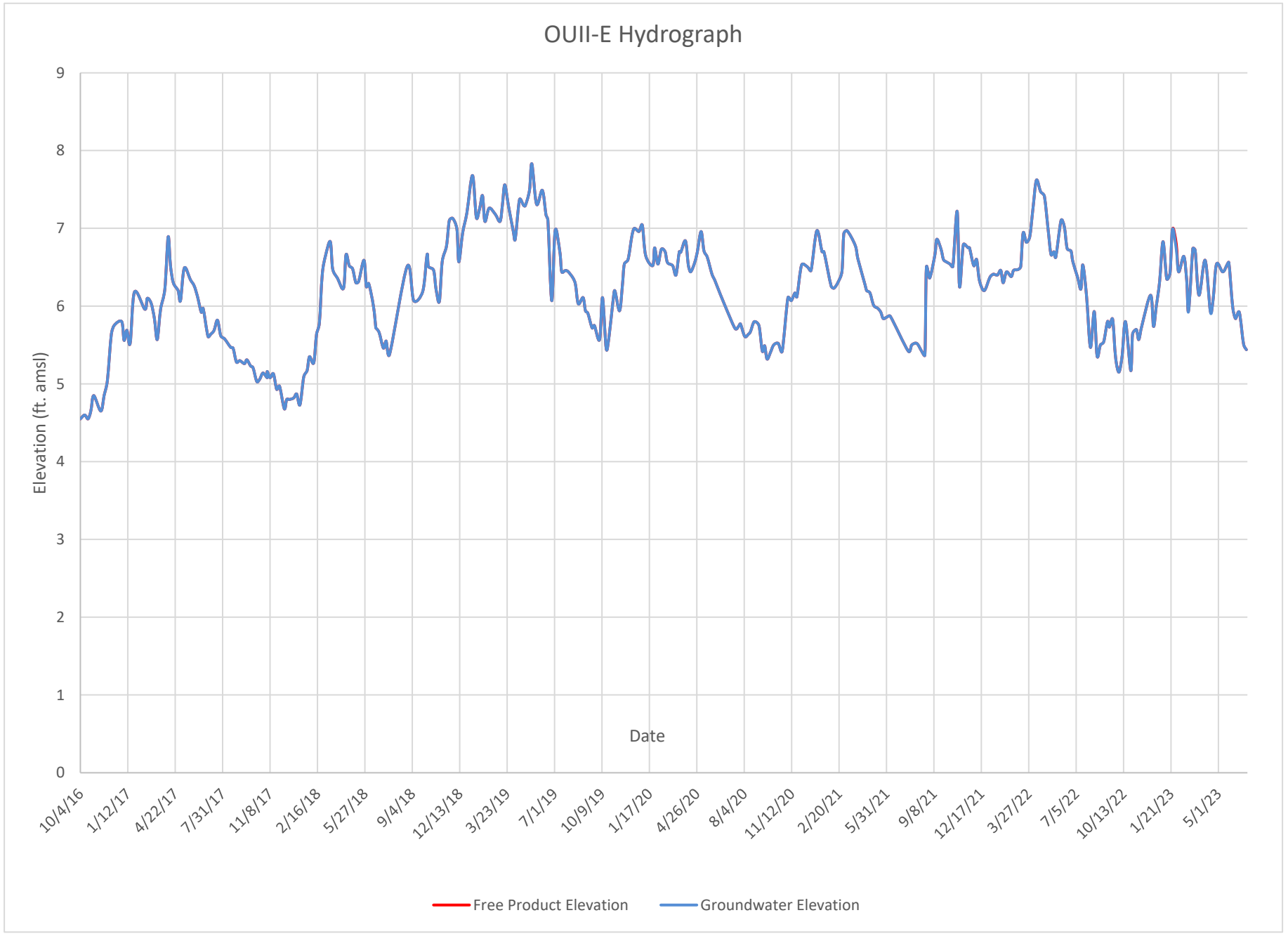
Off-Site Monitoring Well Hydrographs

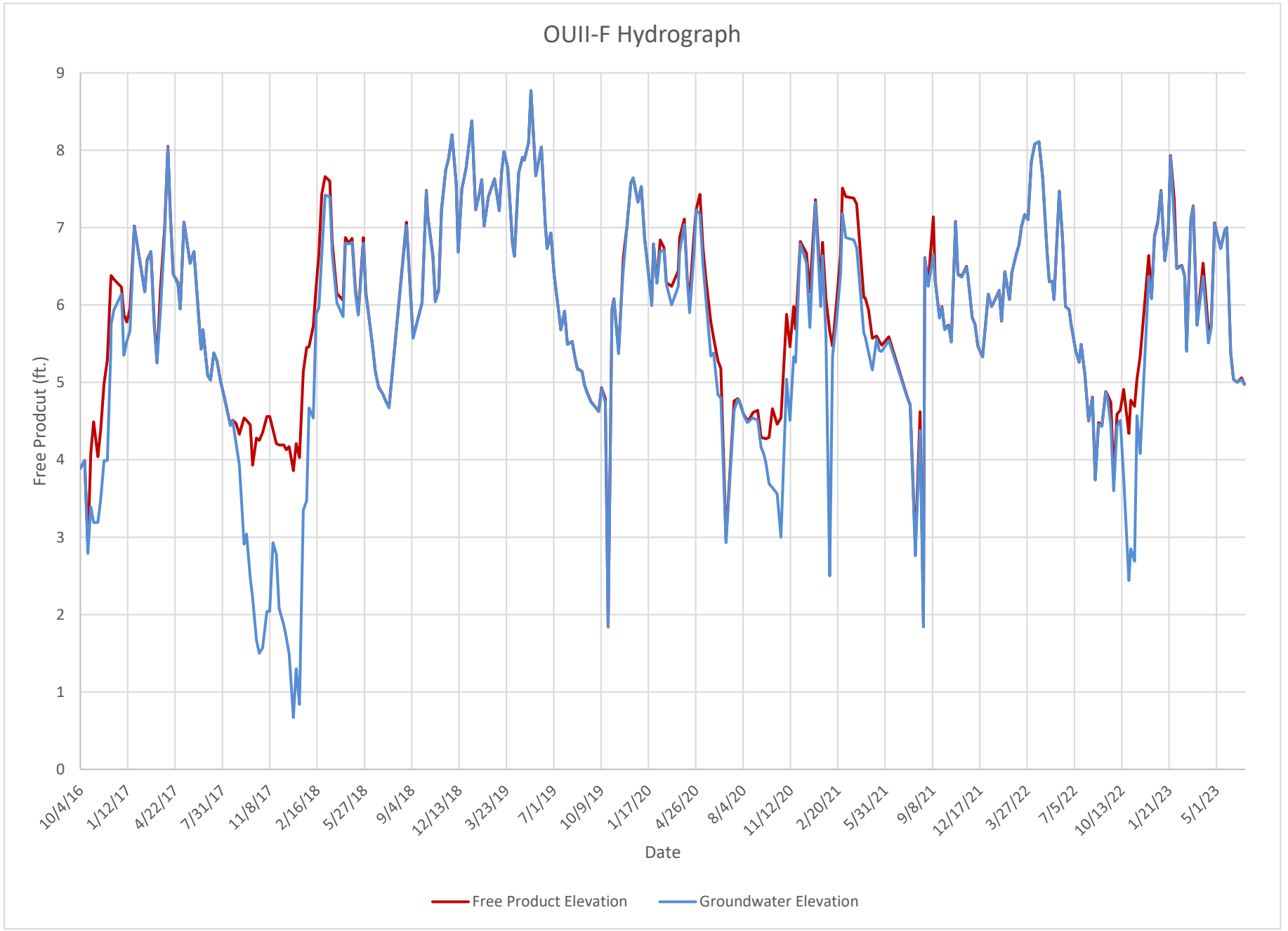

OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Site Inspection

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?	x		x
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		x	
Is there any evidence of settlement?		x	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:
Limited cracking in asphalt between L1 and L4 area to be addressed. Image attached

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).
Good Condition

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	x		
Is there debris or other material on the slopes?		x	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:
Area in good condition

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.
P-7 Missing cap. Image attached

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

Drain is clear and functioning

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **TANK REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is 55-gallon NRD disposal drum full **NO LONGER USE NRD _ N/A**			
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

3 drums sampled 10/25 and 4 drums sampled 11/7/22. Disposal on 1/6/23. See attached samples and BOL.

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	x		

Specify Correction Actions Needed:

Date of Inspection: 4/21/23 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

Cracks in asphalt cover of OU-1

Crack in asphalt cover of OU-1

Missing cap of well P-7

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JULY 1, 2023 THROUGH SEPTEMBER 30, 2023

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between July 1, 2023 and September 30, 2023 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured between August 14, 2023 and August 17, 2023 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and June 30, 2023) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between July 1, 2023 and September 30, 2023) and the preceding report period (i.e., between April 1, 2023 and June 30, 2023) is included as Figure 2.

During the report period, wells RW-1, FA4-8, and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product.

- Compared to the previous report period (i.e., April 1, 2023 to June 30, 2023), lower amounts of free product were removed from wells RW-1 and AI2-3 in the current report period (i.e., July 1, 2023 to September 30, 2023).. Specifically, 14.8 gallons of free product were removed from well AI2-3 in the current report period compared to 15.6 gallons in the previous report period and 37.6 gallons of free product were removed from well RW-1 in the current report period compared to 54.4 gallons of free product removed from well RW-1 in the previous report period. Free product was not removed from well FA4-8 during the current or previous report periods. [Note: During the report period, the Spill Buster in well FA4-8 was reportedly not operational.]

A total of approximately 58.9 gallons of free product was removed from wells at the Site during the current report period. Most of the free product was removed from NAPL Area L4 (i.e., approximately 44.1 gallons). The total amount of free product removed in the previous reporting period (i.e., between April 1, 2023 to June 30, 2023) was approximately 79.9 gallons. In a similar calendar period (i.e., between July 1, 2022 to September 30, 2022) 162.9 gallons were removed. Since January 1, 2013, approximately 5,126 gallons of free product or approximately 111 gallons per reporting period (i.e., every three months) has been removed from the Site.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were collected from four full 55-gallon drums on August 1, 2023, and submitted to York Analytical Laboratories, Inc. (York) for testing of polychlorinated biphenyls (PCBs). As presented in the reports prepared by York (refer to Attachment B), PCBs were not detected at concentrations greater than 50 parts per million (ppm) in any of the four samples tested. Drums free product were not removed from the Site for disposal in the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

[Note: The Data Usability Summary Report (DUSR) related to PFAS testing completed in 2023 has not been received as of the date of this report. This DUSR will be included in the next status report (if received).]

The next groundwater sampling event is currently scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested

for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment C. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, OUII-E, and OUII-F, ranging in thickness between 0.01 ft. (monitoring well MW-E) and 1.67 ft. (monitoring well MW-D). Free product was not recovered from the off-site monitoring wells during the report period.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. [Note: Free product was detected in well OUII-E on one occasion in the previous report period and once in the current report period at a reported thickness of 0.01 ft. on both occasions. These measurements may have been the result of equipment error.] As shown on Figure 3, the amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. Except for OUII-D, which had a decreasing trend during the summer months in 2017 through 2021, but an increase in 2022 and 2023; the thicknesses of free product measured in the off-site monitoring wells during this period are comparable or lower to the thicknesses measured in previous report periods during a similar timeframe (i.e., July through September). The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment C. As shown on the hydrographs the amount of free product detected typically decreases when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on April 21, 2023 by MNR.

During the April 21, 2023 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Cracks were observed in the asphalt cover of OU-I.
- A missing cap was observed on well P-7.

The next bi-annual inspection is scheduled for October 2023.

EMERGENCY OU-I AND OU-II INSPECTION: An emergency inspection of OU-I and OU-II was completed on July 10, 2023 by MNR following a heavy rain event on July 9, 2023. Items requiring corrective actions were not identified during the July 10, 2023 inspection of the OU-I and OU-II areas. A copy of the Emergency Inspection Report is included in Attachment D.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between October 1, 2023 and December 31, 2023), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1 and AI2-3 using the Spill Buster™ system, and the Spill Buster™ in FA4-8 (if it can be repaired and determined to be functional). [Note: Spill Buster™/ Spill Buddy™ systems are reportedly no longer serviced. As such, MNR is currently in the process of identifying alternative options, and the results of this evaluation will be presented in a subsequent status report.] The off-site monitoring wells will continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022 and March 2023. If the apparent blockage observed during the August 2022 and March 2023 groundwater sampling event in monitoring well VE 3-1 cannot be removed, a replacement well will be required.

The next OU-I/OU-II inspection is due on or about October 31, 2023. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., October 1, 2023 through December 31, 2023) will be submitted in January 2024.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: July 1, 2023 through September 30, 2023
Table 2: Historic Free Product Removal Totals: December 1, 2012 through June 30, 2023
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: August 2023
Figure 2: Summary of Free Product Removal for the Report Periods July 1, 2023 – September 30, 2023 and April 1, 2023 – June 30, 2023
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: July 1, 2023 – September 30, 2023
Attachment B: Analytical Laboratory Report
Attachment C: Off-Site Monitoring Well Hydrographs
Attachment D: Emergency Site Inspection

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: July 1, 2023 through September 30, 2023

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0
Total	**0**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	NM
VE1-4	NM
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	14.8
VE2-1	0
Total	**14.8**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	2.01
FA4-15	0
FA4-16	0
FA4-17	2.50
FA4-18	0.25
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	37.6
VE4-1	0
VE4-5	1.75
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	NM
VE4-12	0
VE4-13	NM
Total	**44.11**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - June 30, 2023

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.31
Total	**196.805**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	24.89
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**34.882**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1071.63
VE2-1	0
Total	**1073.26**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	312.43
FA4-15	87.79
FA4-16	76.56
FA4-17	88.1
FA4-18	119.97
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1879.8
VE4-1	0
VE4-5	237.66
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3745.89**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- AI1-12 (4.21 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made August 2023
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	10-2023
DATE DRAWN	10-2023
DATE ISSUED	10-31-2023

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: August 2023

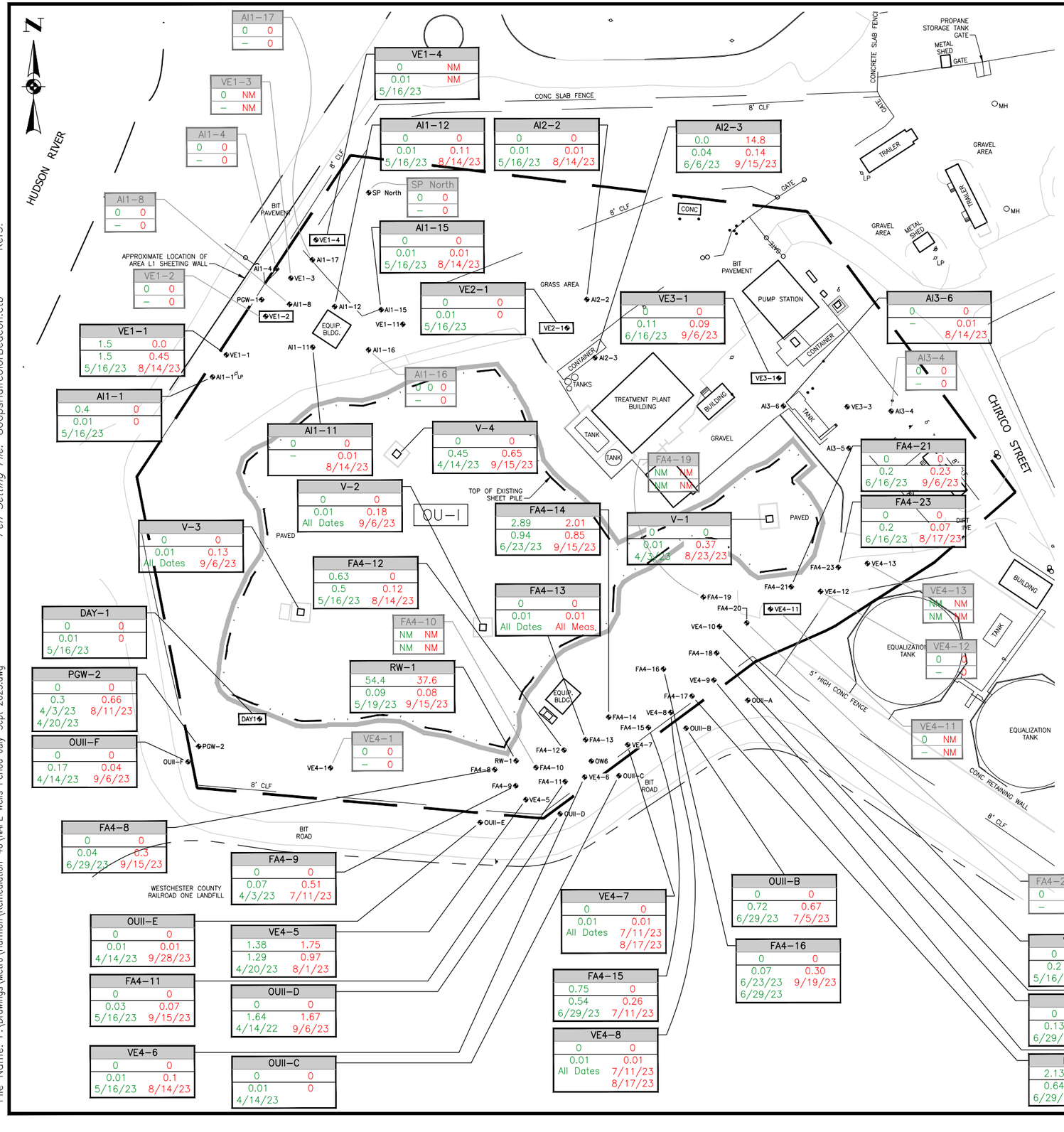
Project No.
23-3690M

FIGURE 1

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb

Time Plotted: Monday, October 16, 2023 2:59:32 PM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period July-Sept 2023.dwg



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells

FA4–14 (2.89 / 2.01 / 6/23/23 / 9/15/23)

- Long–Term Monitoring Well Identification
- Free Product Removed (Gallons) During Report Period
- Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period April 1, 2023 Through June 30, 2023 Shown In Green (Left)

Measurements Made During The Report Period July 1, 2023 Through September 30, 2023 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	10/2023
DATE DRAWN	10/16/2023
DATE ISSUED	10/16/2023

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

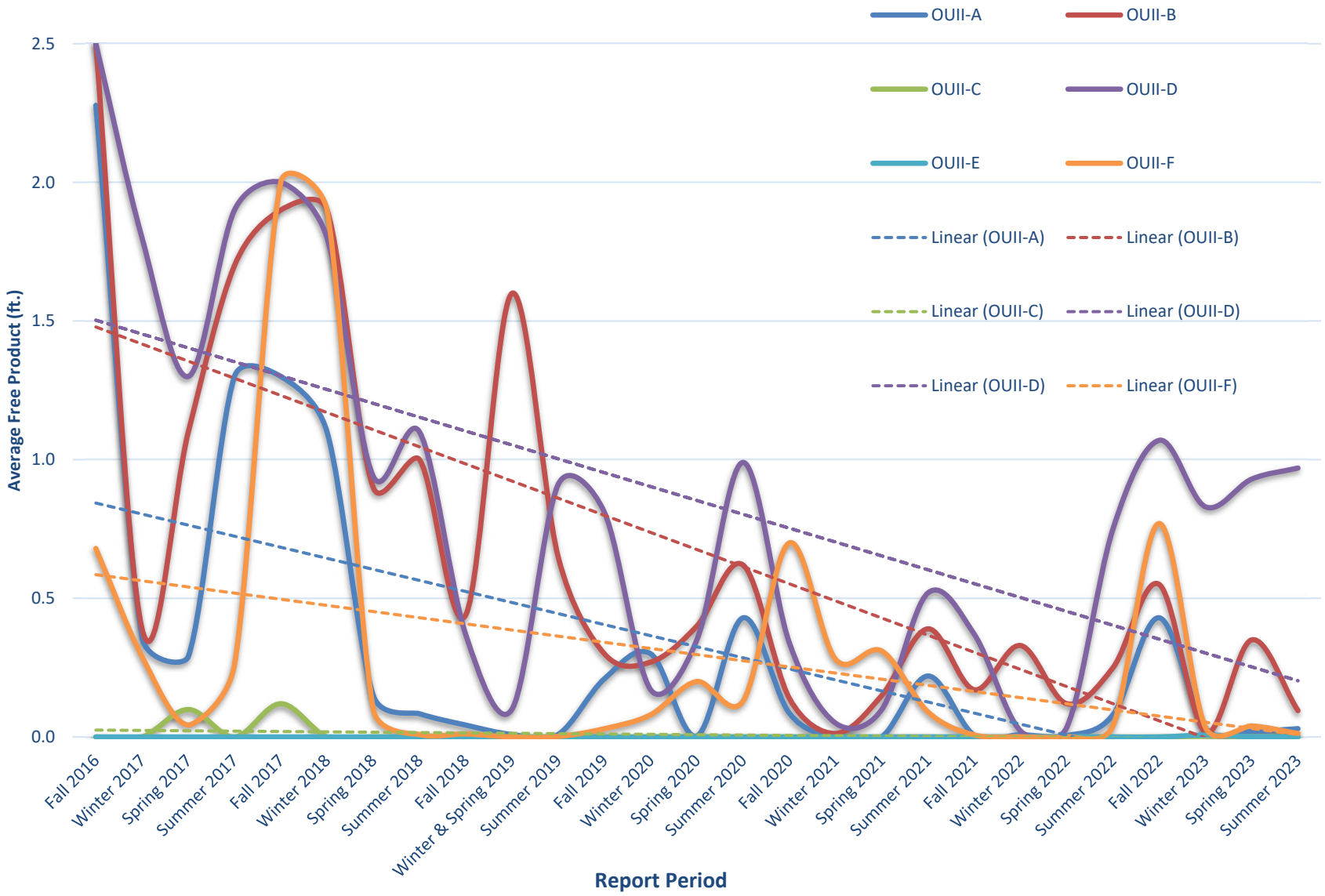
PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
April - June 2023 and July - September 2023

PROJECT NO.
23-3690M

FIGURE 2

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
July 1, 2023 through September 30, 2023

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.17	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	4.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.84	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.83	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/17/2023	-	15.74	0	0	
8/23/2023	15.46	15.83	0.37	0	
9/6/2023	-	15.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	16.68	16.78	0.1	0	
8/17/2023	16.64	16.69	0.05	0	
9/6/2023	16.74	16.92	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	16.25	16.34	0.09	0	
8/17/2023	16.28	16.29	0.01	0	
9/6/2023	16.41	16.54	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	16.15	16.4	0.25	0	
7/11/2023	15.25	15.45	0.2	0	
7/19/2023	15.09	15.41	0.32	0	
7/26/2023	15.1	15.46	0.36	0	
8/1/2023	15.18	15.49	0.31	0	
8/11/2023	15.35	15.63	0.28	0	
8/17/2023	15.41	15.68	0.27	0	
8/29/2023	15.5	15.84	0.34	0	
9/6/2023	15.61	15.95	0.34	0	
9/15/2023	15.65	16.3	0.65	0	
9/19/2023	15.7	16.15	0.45	0	
9/28/2023	14.85	14.89	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	10.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	9.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.92	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	13.61	13.62	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	16.51	16.62	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	17.91	17.92	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.43	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	11.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	-	9.55	0	0	
7/11/2023	-	8.29	0	0	
7/19/2023	-	8.57	0	0	
7/26/2023	-	8.52	0	0	
8/1/2023	-	8.73	0	0	
8/11/2023	-	8.68	0	0	
8/17/2023	-	9.01	0	0	
8/23/2023	-	9.01	0	0	
8/29/2023	-	8.99	0	0	
9/6/2023	-	9.04	0	0	
9/15/2023	-	8.75	0	0	
9/19/2023	-	8.68	0	0	
9/28/2023	-	8.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	8.00	8.45	0.45	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	8.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	8.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	14.21	14.22	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
7/5/2023	15.5	15.51	0.01	0	drum-2.17
7/11/2023	14.8	14.81	0.01	0	drum-2.35
7/19/2023	14.68	14.69	0.01	0	
7/26/2023	14.65	14.66	0.01	0	Drum-0.02
8/1/2023	14.7	14.71	0.01	0	Drum-0.03
8/11/2023	14.86	14.87	0.01	0	Drum-0.08
8/14/2023	14.91	14.92	0.01	0	
8/17/2023	14.9	14.91	0.01	0	Drum-0.09
8/23/2023	14.83	14.84	0.01	0	Drum-0.1
8/29/2023	14.83	14.84	0.01	0	Drum-0.15
9/6/2023	15.33	15.34	0.01	0	Drum-0.20
9/15/2023	15.12	15.26	0.14	0	Drum-0.26
9/19/2023	15.25	15.26	0.01	0	Drum-0.29
9/28/2023	14.48	14.49	0.01	0	Drum- 0.39

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 6/29/2023 stated '2.15 ft'. Approximately 14.8 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	10.75	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.94	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	16.12	16.13	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	13.32	13.33	0.01	0	
8/17/2023	10.6	10.65	0.05	0	
9/6/2023	10.95	11.04	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	16.10	16.11	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/11/2023	16.22	16.23	0.01	0	Drum-0.62
7/19/2023	15.84	15.85	0.01	0	Drum-0.59
7/26/2023	16	16.01	0.01	0	Drum-0.59
8/1/2023	15.97	15.98	0.01	0	Drum-0.58
8/11/2023	16.12	16.13	0.01	0	Drum-0.59
8/17/2023	16.1	16.11	0.01	0	Drum-0.59
8/23/2023	16.04	16.07	0.03	0	Drum-0.59
8/29/2023	16.08	16.1	0.02	0	Drum-0.64
9/6/2023	16.24	16.25	0.01	0	Drum-0.57
9/15/2023	16.4	16.7	0.3	0	Drum-0.6
9/19/2023	16.41	16.42	0.01	0	Drum-0.64
9/28/2023	14.46	14.47	0.01	0	Drum-0.59

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 6/29/2023 stated 'drum 0.56 ft'. Free product not removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	6.39	6.9	0.51	0	
8/17/2023	7.28	7.55	0.27	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	16.42	16.43	0.01	0	
7/11/2023	10.56	10.57	0.01	0	
7/19/2023	10.55	10.56	0.01	0	
7/26/2023	10.2	10.21	0.01	0	
8/1/2023	10.61	10.62	0.01	0	
8/11/2023	10.84	10.85	0.01	0	
8/14/2023	10.79	10.80	0.01	0	
8/17/2023	10.55	10.56	0.01	0	
8/23/2023	10.65	10.66	0.01	0	
8/29/2023	10.82	10.83	0.01	0	
9/15/2023	11.33	11.40	0.07	0	
9/19/2023	11.32	11.33	0.01	0	
9/28/2023	9.97	9.98	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	13.93	14.05	0.12	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	10.88	10.89	0.01	0	
7/11/2023	10.05	10.06	0.01	0	
7/19/2023	10.17	10.18	0.01	0	
7/26/2023	9.89	9.9	0.01	0	
8/1/2023	10.18	10.19	0.01	0	
8/11/2023	10.52	10.53	0.01	0	
8/14/2023	10.43	10.44	0.01	0	
8/17/2023	10.22	10.23	0.01	0	
8/23/2023	10.25	10.26	0.01	0	
8/29/2023	10.35	10.36	0.01	0	
9/6/2023	10.66	10.67	0.01	0	
9/15/2023	10.71	10.72	0.01	0	
9/19/2023	10.64	10.65	0.01	0	
9/28/2023	9.45	9.46	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	13.28	13.35	0.07	0	
7/11/2023	12.72	13.05	0.33	0	
7/19/2023	12.72	13.01	0.29	0	
7/26/2023	12.50	12.91	0.41	0	
8/1/2023	12.67	13.44	0.77	0.75	
8/11/2023	12.88	13.32	0.44	0	
8/17/2023	12.85	13.25	0.40	0	
8/23/2023	12.81	13.53	0.72	0.63	
8/29/2023	12.85	13.21	0.36	0	
9/6/2023	13.09	13.48	0.39	0	
9/15/2023	13.20	14.05	0.85	0	
9/19/2023	13.25	13.95	0.70	0.63	
9/28/2023	12.26	12.31	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	10.45	10.52	0.07	0	
7/11/2023	9.59	9.85	0.26	0	
7/19/2023	9.68	9.77	0.09	0	
7/26/2023	9.55	9.79	0.24	0	
8/1/2023	9.72	9.93	0.21	0	
8/11/2023	9.95	9.98	0.03	0	
8/14/2023	9.97	9.99	0.02	0	
8/17/2023	9.80	9.83	0.03	0	
8/23/2023	9.83	9.98	0.15	0	
8/29/2023	9.90	9.91	0.01	0	
9/6/2023	10.11	10.18	0.07	0	
9/15/2023	10.22	10.47	0.25	0	
9/19/2023	10.26	10.43	0.17	0	
9/28/2023	9.01	9.15	0.14	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	14.50	14.65	0.15	0	
7/11/2023	14.05	14.12	0.07	0	
7/19/2023	13.85	13.91	0.06	0	
7/26/2023	13.71	13.85	0.14	0	
8/1/2023	13.81	14.01	0.20	0	
8/11/2023	13.75	13.92	0.17	0	
8/17/2023	13.94	14.01	0.07	0	
8/23/2023	13.91	14.18	0.27	0	
8/29/2023	14.01	14.12	0.11	0	
9/6/2023	14.18	14.34	0.16	0	
9/15/2023	14.30	14.54	0.24	0	
9/19/2023	14.35	14.65	0.30	0	
9/28/2023	13.39	13.65	0.26	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	10.55	10.6	0.05	0	
7/11/2023	9.85	10.20	0.35	0	
7/19/2023	9.82	10.28	0.46	0	
7/26/2023	9.62	10.04	0.42	0	
8/1/2023	9.84	10.78	0.94	1.25	
8/11/2023	10.12	10.25	0.13	0	
8/17/2023	9.98	10.35	0.37	0	
8/23/2023	9.97	10.55	0.58	1.25	
8/29/2023	10.05	10.40	0.35	0	
9/6/2023	10.27	10.48	0.21	0	
9/15/2023	10.40	11.80	1.40	0.25	
9/19/2023	10.42	10.82	0.40	0	
9/28/2023	9.34	9.45	0.11	0	

*Measured height of Free Product accumulated in drum. Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	12.82	12.83	0.01	0	
7/11/2023	12.41	12.55	0.14	0	
7/19/2023	12.28	12.54	0.26	0	
7/26/2023	12.21	12.45	0.24	0	
8/1/2023	12.27	12.45	0.18	0	
8/11/2023	12.51	12.72	0.21	0	
8/17/2023	12.42	12.56	0.14	0	
8/23/2023	12.41	12.65	0.24	0	
8/29/2023	12.51	12.71	0.2	0	
9/6/2023	12.72	12.91	0.19	0	
9/15/2023	12.8	13.1	0.3	0	
9/19/2023	12.9	13.14	0.24	0	
9/28/2023	11.91	11.92	0.01	0.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	12.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	13.35	13.36	0.01	0	
8/17/2023	13.19	13.2	0.01	0	
9/6/2023	13.45	13.68	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	12.6	12.61	0.01	0	
8/17/2023	12.45	12.52	0.07	0	
9/6/2023	12.79	12.81	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	7.08	7.15	0.07	0	
7/11/2023	5.41	5.73	0.32	0	
7/19/2023	5.6	5.88	0.28	0	
7/26/2023	5.4	6.01	0.61	0	
8/1/2023	5.35	6	0.65	0	
8/11/2023	5.22	5.88	0.66	0	
8/17/2023	6.18	6.34	0.16	0	
8/23/2023	6.05	6.22	0.17	0	
8/29/2023	6.02	6.21	0.19	0	
9/6/2023	6.95	7.4	0.45	0	
9/15/2023	6.9	7.1	0.2	0	
9/19/2023	8.88	9.14	0.26	0	
9/28/2023	4.61	4.78	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/5/2023	14.9	14.91	0.01	0	Drum-1.87
7/11/2023	14.19	14.22	0.03	0	Drum-2.30
7/19/2023	14.24	14.25	0.01	0	Drum-0.32
7/26/2023	14.11	14.12	0.01	0	Drum-0.42
8/1/2023	14.17	14.18	0.01	0	Drum-0.42
8/11/2023	14.45	14.46	0.01	0	Drum-0.49
8/17/2023	14.35	14.36	0.01	0	Drum-0.43
8/22/2023	8.91	8.92	0.01	0	
8/23/2023	14.34	14.35	0.01	0	Drum-0.43
8/29/2023	14.31	14.32	0.01	0	
9/6/2023	14.65	14.66	0.01	0	Drum-0.59
9/15/2023	14.72	14.8	0.08	0	Drum-0.89
9/19/2023	14.85	14.86	0.01	0	
9/28/2023	13.78	13.79	0.01	0	Drum-1.20

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 6/23/2023 stated 'drum 1.82 ft'. Approximately 37.6 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	8.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	9.52	9.64	0.12	0	
7/11/2023	9.11	9.45	0.34	0	
7/19/2023	9.11	9.45	0.34	0	
7/26/2023	8.91	9.38	0.47	0	
8/1/2023	9.01	9.98	0.97	1	
8/11/2023	9.32	9.69	0.37	0	
8/17/2023	9.18	9.35	0.17	0	
8/23/2023	8.81	9.24	0.43	0.75	
8/29/2023	9.25	9.4	0.15	0	
9/6/2023	9.52	9.65	0.13	0	
9/15/2023	9.60	9.95	0.35	0	
9/19/2023	9.65	10.00	0.35	0	
9/28/2023	8.75	9.01	0.26	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	6.65	6.75	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	6.66	6.67	0.01	0	
8/17/2023	7.35	7.36	0.01	0	
9/6/2023	-	7.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	6.75	6.76	0.01	0	
8/17/2023	7.65	7.66	0.01	0	
9/6/2023	-	7.84	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/11/2023	7.33	7.34	0.01	0	
8/17/2023	7.93	7.94	0.01	0	
9/6/2023	8.16	8.18	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	12.10	12.11	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/14/2023	-	13.10	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	8.99	9.2	0.21	0	
7/11/2023	0	8.01	0	0	
7/19/2023	8.03	8.04	0.01	0	
7/26/2023	8.03	8.05	0.02	0	
8/1/2023	8.09	8.12	0.03	0	
8/11/2023	8.05	8.06	0.01	0	
8/17/2023	8.01	8.06	0.05	0	
8/23/2023	8.15	8.16	0.01	0	
8/29/2023	8.22	8.23	0.01	0	
9/6/2023	8.45	8.46	0.01	0	
9/15/2023	8.6	8.61	0.01	0	
9/19/2023	8.39	8.4	0.01	0	
9/28/2023	8.01	8.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	8.68	9.35	0.67	0	
7/11/2023	0	7.83	0	0	
7/19/2023	7.68	7.69	0.01	0	
7/26/2023	0	7.62	0	0	
8/1/2023	8	8.01	0.01	0	
8/11/2023	8.03	8.04	0.01	0	
8/17/2023	7.98	7.99	0.01	0	
8/23/2023	7.8	7.81	0.01	0	
8/29/2023	7.93	7.94	0.01	0	
9/6/2023	8.3	8.31	0.01	0	
9/15/2023	8.2	8.45	0.25	0	
9/19/2023	7.84	7.9	0.06	0	
9/28/2023	7.91	8.09	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	-	8.8	0	0	
7/11/2023	-	7.31	0	0	
7/19/2023	-	7.69	0	0	
7/26/2023	-	7.41	0	0	
8/1/2023	-	7.85	0	0	
8/11/2023	-	7.81	0	0	
8/17/2023	-	7.81	0	0	
8/23/2023	-	7.78	0	0	
8/29/2023	-	7.86	0	0	
9/6/2023	-	8.32	0	0	
9/15/2023	-	8.01	0	0	
9/19/2023	-	7.99	0	0	
9/28/2023	-	7.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	10.00	10.9	0.9	0	
7/11/2023	8.31	8.51	0.2	0	
7/19/2023	7.94	8.48	0.54	0	
7/26/2023	8.01	8.78	0.77	0	
8/1/2023	8.00	9.2	1.2	0	
8/11/2023	8.05	9.16	1.11	0	
8/17/2023	7.98	9.15	1.17	0	
8/23/2023	7.96	9.01	1.05	0	
8/29/2023	8.01	9.05	1.04	0	
9/6/2023	8.21	9.88	1.67	0	
9/15/2023	8.38	9.68	1.3	0	
9/19/2023	8.49	9.37	0.88	0	
9/28/2023	7.91	8.72	0.81	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	-	9.25	0	0	
7/11/2023	-	8.3	0	0	
7/19/2023	-	8.32	0	0	
7/26/2023	-	8.21	0	0	
8/1/2023	-	8.29	0	0	
8/11/2023	-	8.26	0	0	
8/17/2023	-	8.25	0	0	
8/23/2023	-	8.32	0	0	
8/29/2023	-	8.4	0	0	
9/6/2023	-	8.63	0	0	
9/15/2023	-	8.43	0	0	
9/19/2023	-	8.39	0	0	
9/28/2023	8.21	8.22	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/5/2023	6.48	6.49	0.01	0	
7/11/2023	-	4.62	0	0	
7/19/2023	4.68	4.69	0.01	0	
7/26/2023	4.69	4.7	0.01	0	
8/1/2023	5.21	5.22	0.01	0	
8/11/2023	5.19	5.21	0.02	0	
8/17/2023	5.23	5.25	0.02	0	
8/23/2023	5.12	5.13	0.01	0	
8/29/2023	5.16	5.17	0.01	0	
9/6/2023	4.81	4.85	0.04	0	
9/15/2023	6.09	6.1	0.01	0	
9/28/2023	4.85	4.86	0.01	0	

ATTACHMENT B

Analytical Laboratory Report

Technical Report

prepared for:

Metro North Commuter Railroad
525 North Broadway
White Plains NY, 10603
Attention: Sara Gianazza

Report Date: 08/03/2023
Client Project ID: Harmon OU II Drums Well AI 2-3 H2 Recovered Oil
York Project (SDG) No.: 23H0044

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 08/03/2023
Client Project ID: Harmon OU II Drums Well Al 2-3 H2 Recovered Oil
York Project (SDG) No.: 23H0044

Metro North Commuter Railroad
525 North Broadway
White Plains NY, 10603
Attention: Sara Gianazza

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 01, 2023 and listed below. The project was identified as your project: **Harmon OU II Drums Well Al 2-3 H2 Recovered Oil**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23H0044-01	Drum No. 1	Oil	08/01/2023	08/01/2023
23H0044-02	Drum No. 2	Oil	08/01/2023	08/01/2023
23H0044-03	Drum No. 3	Oil	08/01/2023	08/01/2023
23H0044-04	Drum No. 4	Oil	08/01/2023	08/01/2023

General Notes for York Project (SDG) No.: 23H0044

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 08/03/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **Drum No. 1** **York Sample ID:** **23H0044-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23H0044	Harmon OU II Drums Well Al 2-3 H2 Recovered Oil	Oil	August 1, 2023 9:43 am	08/01/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:40	BCJ
1336-36-3	* Total PCBs	ND		mg/kg	4.98	1	EPA 8082A Certifications:	08/01/2023 16:32	08/03/2023 10:40	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.0 %*	*30-150*

Sample Information

Client Sample ID: **Drum No. 2** **York Sample ID:** **23H0044-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23H0044	Harmon OU II Drums Well Al 2-3 H2 Recovered Oil	Oil	August 1, 2023 9:48 am	08/01/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:53	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:53	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:53	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:53	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32 CTDOH-PH-0723,NELAC-NY10854	08/03/2023 10:53	BCJ

Sample Information

Client Sample ID: **Drum No. 2** **York Sample ID:** **23H0044-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23H0044	Harmon OU II Drums Well Al 2-3 H2 Recovered Oil	Oil	August 1, 2023 9:48 am	08/01/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg	4.75	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 10:53	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.75	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 10:53	BCJ
1336-36-3	* Total PCBs	ND		mg/kg	4.75	1	EPA 8082A Certifications:	08/01/2023 16:32	08/03/2023 10:53	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.5 %*	*30-150*

Sample Information

Client Sample ID: **Drum No. 3** **York Sample ID:** **23H0044-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23H0044	Harmon OU II Drums Well Al 2-3 H2 Recovered Oil	Oil	August 1, 2023 9:52 am	08/01/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.90	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:07	BCJ
1336-36-3	* Total PCBs	ND		mg/kg	4.90	1	EPA 8082A Certifications:	08/01/2023 16:32	08/03/2023 11:07	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-150*

Sample Information

Client Sample ID: **Drum No. 4** **York Sample ID:** **23H0044-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23H0044	Harmon OU II Drums Well Al 2-3 H2 Recovered Oil	Oil	August 1, 2023 9:58 am	08/01/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg	4.99	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	08/01/2023 16:32	08/03/2023 11:21	BCJ
1336-36-3	* Total PCBs	ND		mg/kg	4.99	1	EPA 8082A Certifications:	08/01/2023 16:32	08/03/2023 11:21	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.0 %*	*30-150*

Analytical Batch Summary

Batch ID: BH30070 **Preparation Method:** Oil Preparation for GC **Prepared By:** BCJ

YORK Sample ID	Client Sample ID	Preparation Date
23H0044-01	Drum No. 1	08/01/23
23H0044-02	Drum No. 2	08/01/23
23H0044-03	Drum No. 3	08/01/23
23H0044-04	Drum No. 4	08/01/23
BH30070-BLK1	Blank	08/01/23
BH30070-DUP1	Duplicate	08/01/23
BH30070-SRM1	Reference	08/01/23

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH30070 - Oil Preparation for GC											
Blank (BH30070-BLK1)								Prepared & Analyzed: 08/01/2023			
Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
Surrogate: Tetrachloro-m-xylene	*18.7*		"	*20.0*		*93.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*12.5*		"	*20.0*		*62.5*	*30-150*				
Duplicate (BH30070-DUP1)	*Source sample: 23H0047-02 (Duplicate)							Prepared: 08/01/2023 Analyzed: 08/02/2023			
Aroclor 1260	ND	4.58	mg/kg		ND					200	
Total PCBs	ND	4.58	"		ND					200	
Surrogate: Tetrachloro-m-xylene	*12.5*		"	*18.3*		*68.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*11.3*		"	*18.3*		*61.5*	*30-150*				
Reference (BH30070-SRM1)								Prepared & Analyzed: 08/01/2023			
Aroclor 1260	83.0	5.00	mg/kg	100		83.0	19.06-140.6				
Surrogate: Tetrachloro-m-xylene	*13.7*		"	*20.0*		*68.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*13.1*		"	*20.0*		*65.5*	*30-150*				

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
132-02 89th Ave
Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23HD044

YOUR Information	Report To:	Invoice To:
Company: Metro North	Company: Same	Company: Same
Address: 525 N Broadway N. White Plains NY	Address:	Address:
Phone.: 914-461-0591	Phone.:	Phone.:
Contact: Sara Gianazza	Contact:	Contact:
E-mail: Gianazza@MNR.ORG	E-mail:	E-mail:

YOUR Project Number: Harmon OU II Drums

YOUR Project Name: OU II wall A1-2-3 H2 Recovered 0:1

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Michael LeMoine

Michael LeMoine

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil ; Other

Samples From

- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Drum # 1	O	8/1/23 0945	Total PCBs	4-02 Sal
Drum # 2		0948		
Drum # 3		0952		
Drum # 4		0958		

Comments:

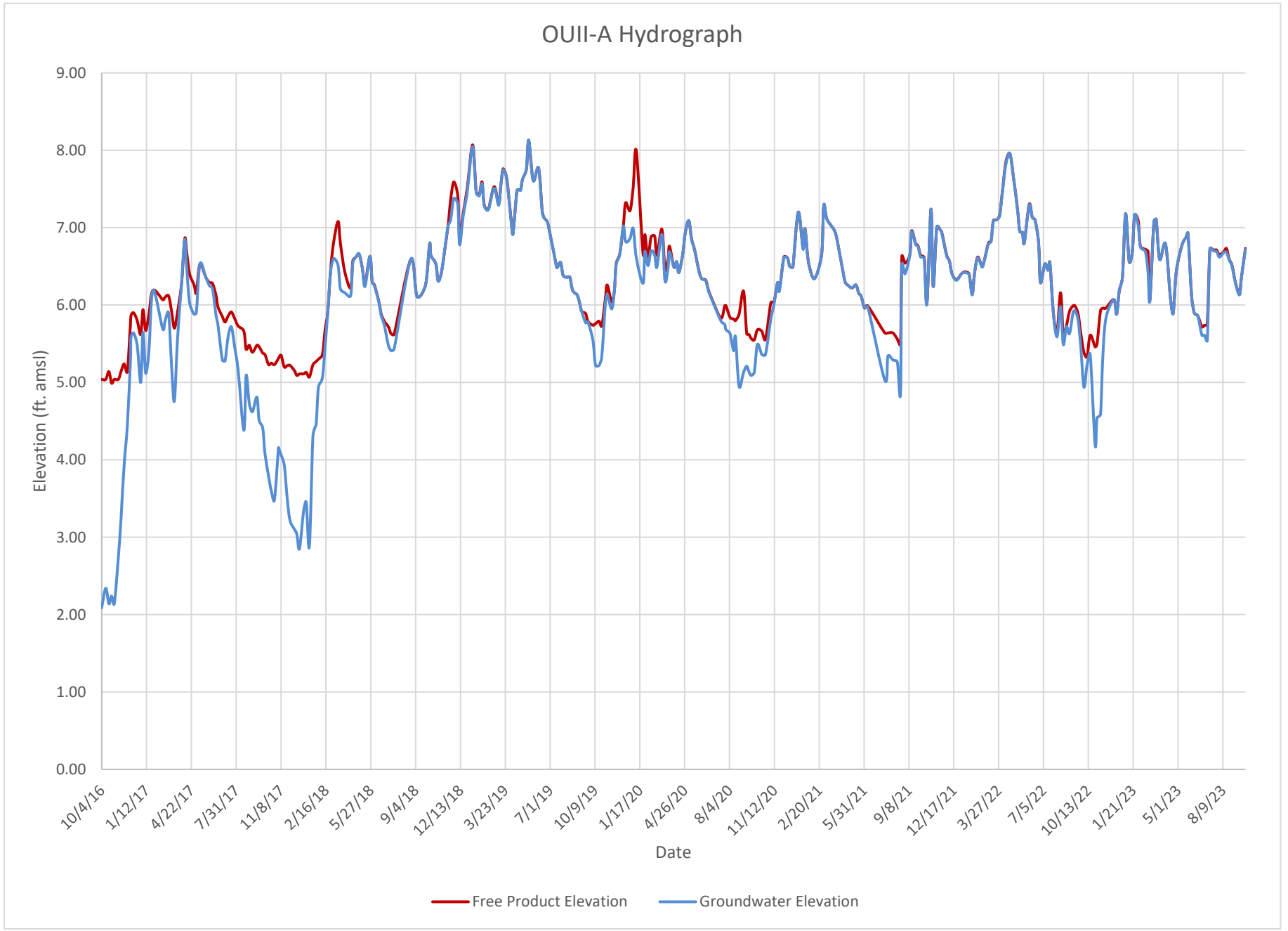
Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

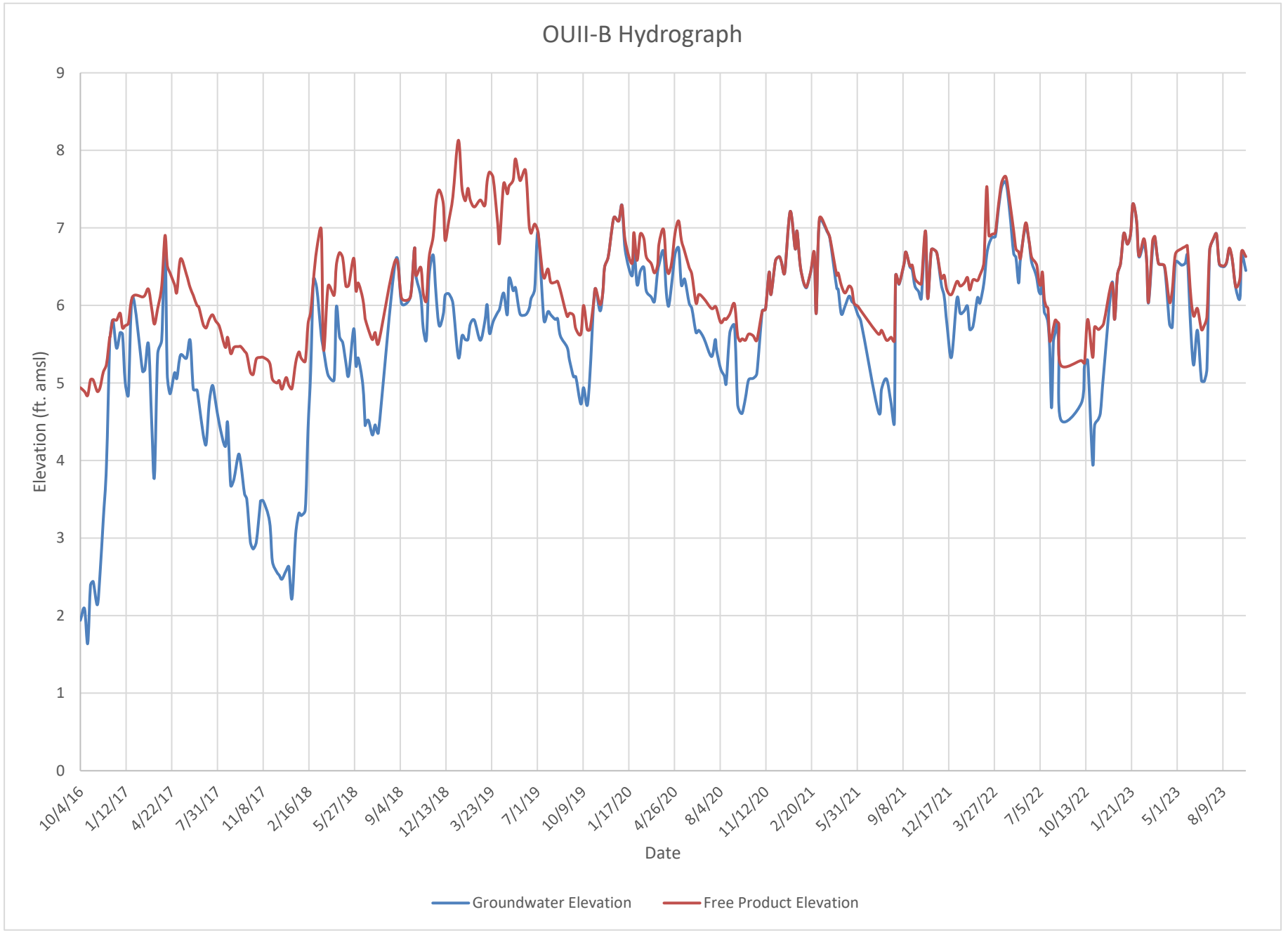
Special Instruction
Field Filtered ___
Lab to Filter ___

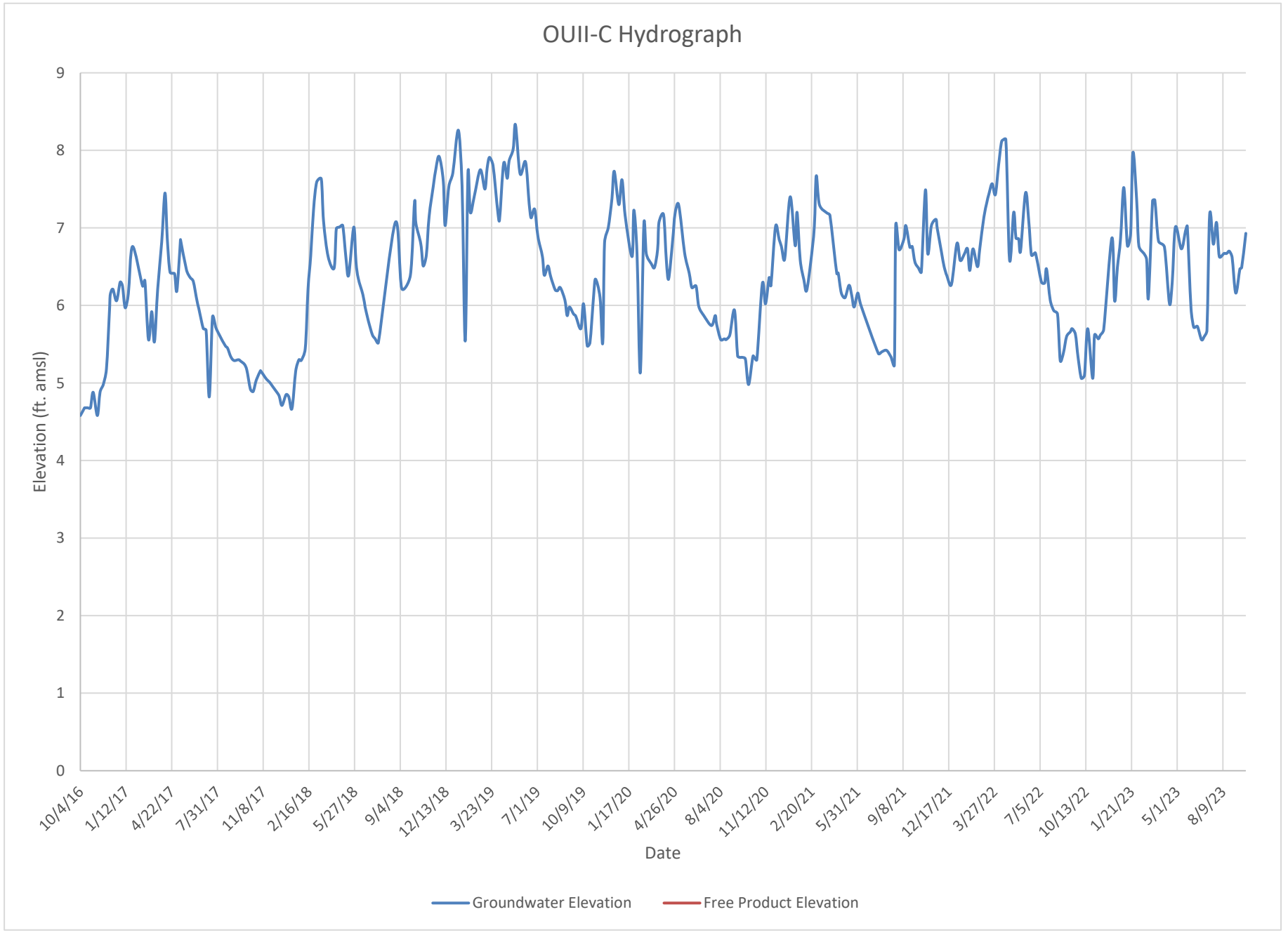
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Michael LeMoine	8/1/23 1243		8/1/23 1419		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by:	Date/Time / Temp. Received at Lab
					8/1/23 14:19 / 27.3 Degrees C

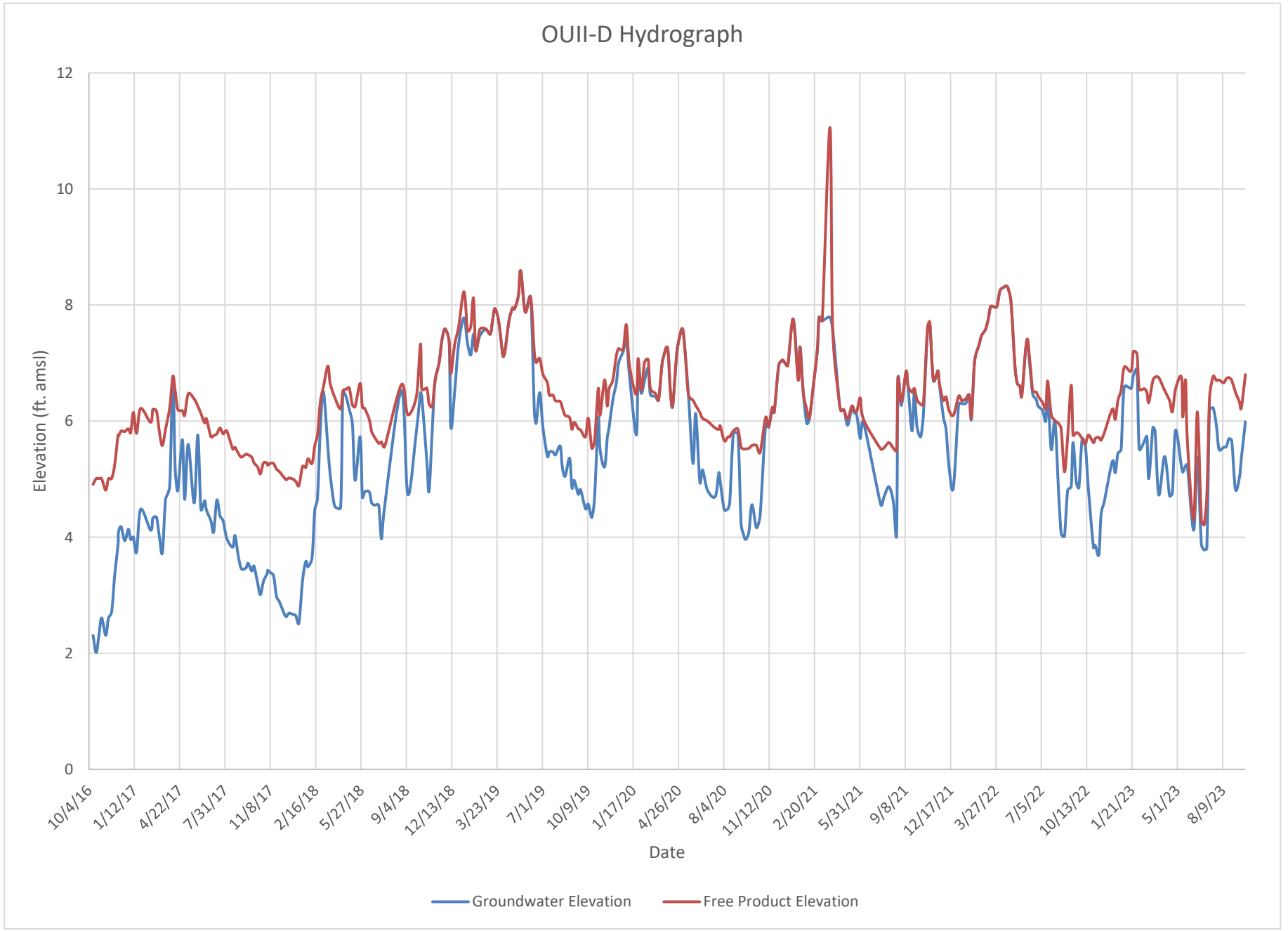
ATTACHMENT C

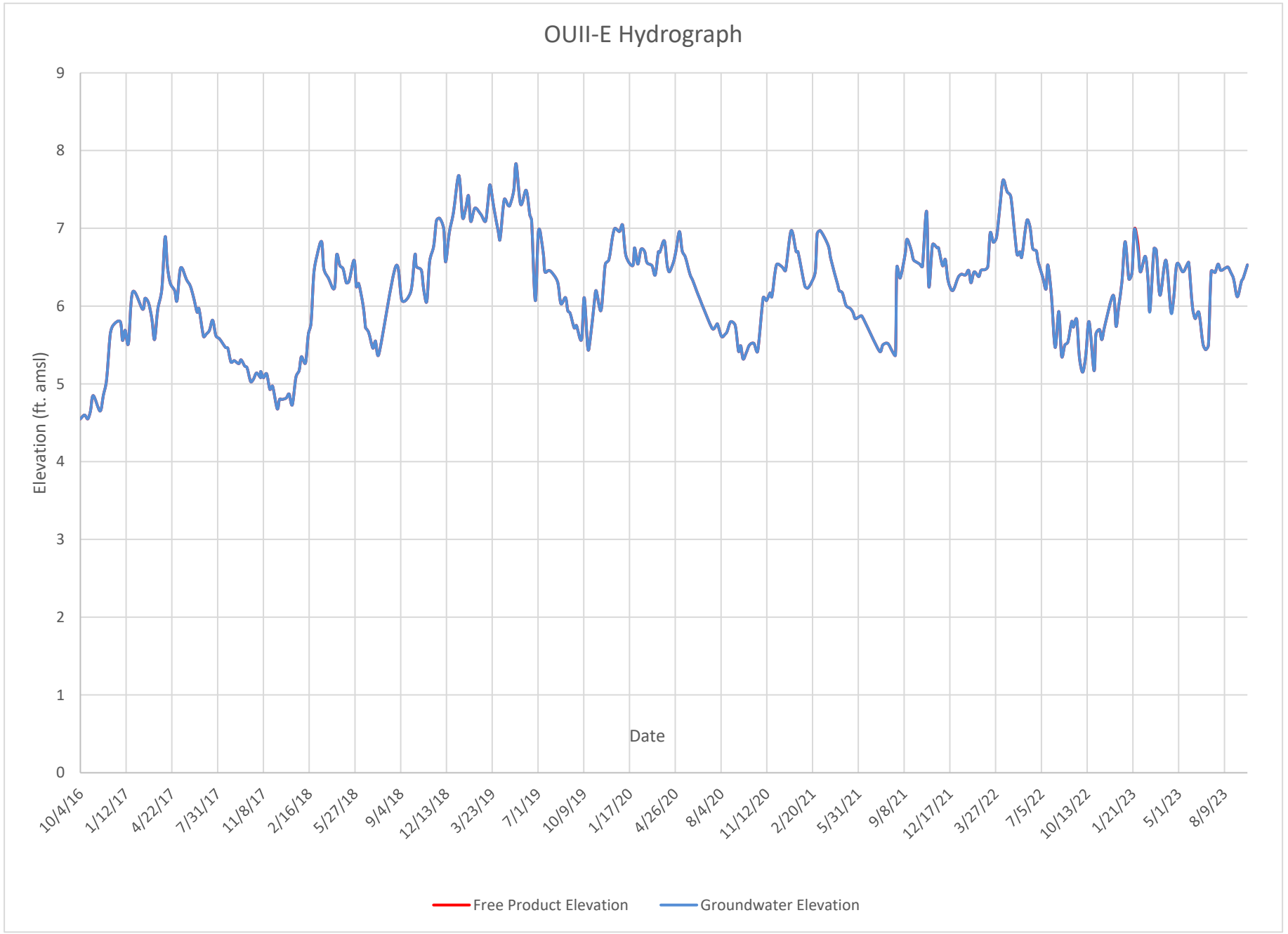
Off-Site Monitoring Well Hydrographs

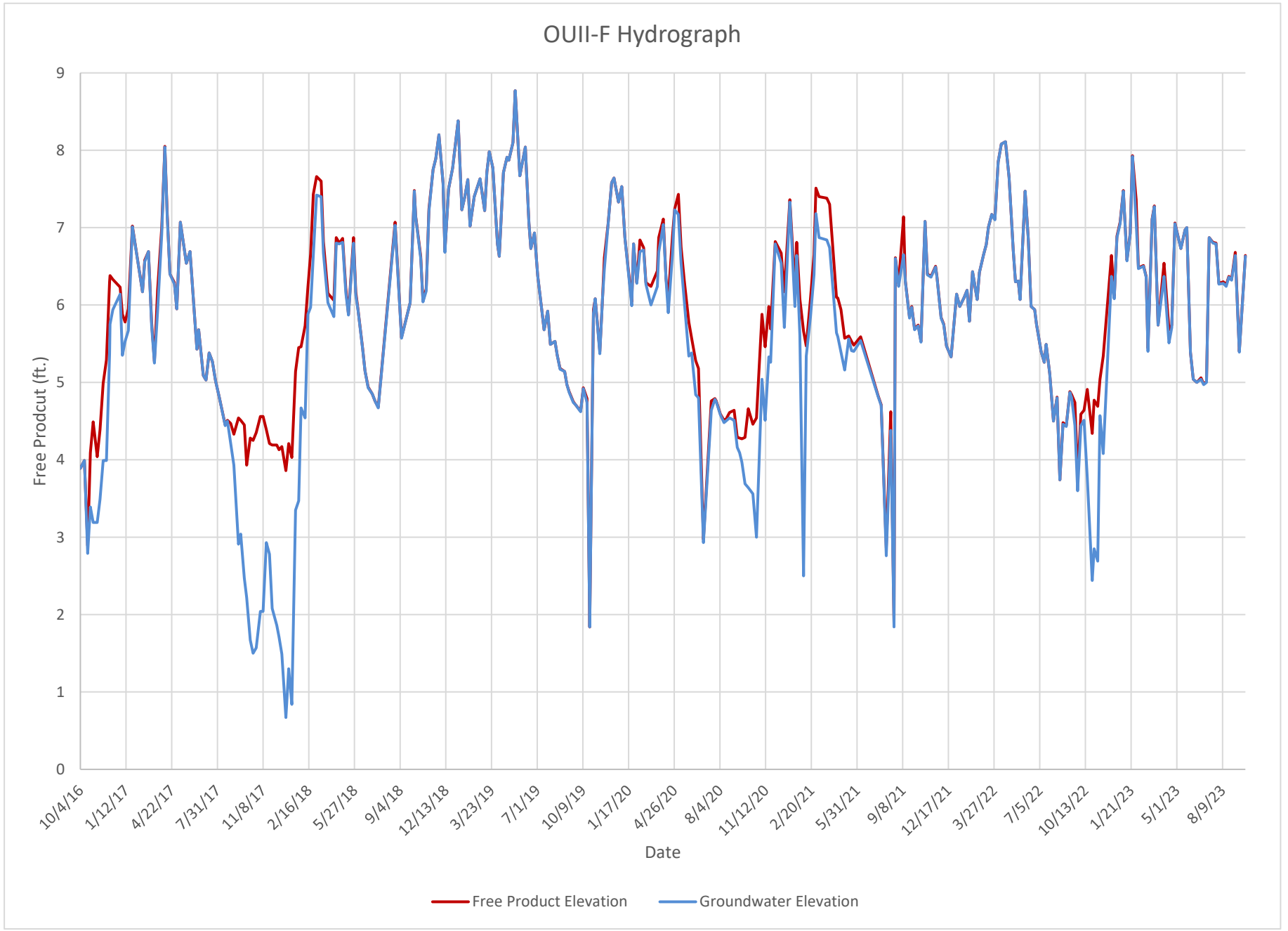

OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Emergency Site Inspection

Emergency inspection due to significant rain event on 7/9/23

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II Inspection Form NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		x	
Is there any evidence of settlement?		x	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?		x	
Is there debris or other material on the slopes?		x	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		N/A	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full? **N/A**			
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.
To be provided during biannual inspection

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?		x	

Specify Correction Actions Needed:

Date of Inspection: 7/10/23 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

Photographs

Cover system in OU-I

Cover system in OU-I

Drum storage area

Slope of NAPL Area L4

Slope of NAPL Area L4

Well FA 4-18

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: OCTOBER 1, 2023 THROUGH DECEMBER 31, 2023

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between October 1, 2023 and December 31, 2023 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on October 19, 2023 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and September 30, 2023) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between October 1, 2023 and December 31, 2023), and the preceding report period (i.e., between June 1, 2023 and September 30, 2023) is included as Figure 2.

During the report period, wells RW-1 and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ system was formerly located in well FA4-8; however, this system is no longer functional. In addition, the Spill Buddy™ is reportedly no longer operational. The Spill Buster™ and Spill Buddy™ systems were purchased from Clean Earth Technology. Reportedly, Spill Buster™ and Spill Buddy™ systems are no longer available for purchase or repair.]

- Compared to the previous report period (i.e., July 1, 2023 to September 30, 2023), lower amounts of free product were removed from wells RW-1 and AI2-3 in the current report period (i.e., October 1, 2023 to December 31, 2023). Specifically, free product was not removed from well AI2-3 during the current report period compared to 14.8 gallons in the previous report period and 2.5 gallons of free product were removed from well RW-1 during the current report period compared to 37.6 gallons of free product removed from well RW-1 in the previous

report period. Free product was not removed from well FA4-8 during the current or previous report periods.

A total of approximately 7.9 gallons of free product was removed from wells at the Site during the current report period. Most of the free product was removed from NAPL Area L4 (i.e., approximately 5.75 gallons). The total amount of free product removed in the previous reporting period (i.e., between July 1, 2023 to September 30, 2023) was approximately 58.9 gallons. In a similar calendar period (i.e., between October 1, 2022 to December 31, 2022) 175.6 gallons were removed. Since January 1, 2013, approximately 5,134 gallons of free product or approximately 111 gallons per reporting period (i.e., every three months) have been removed from the Site.

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected for testing in the current report period. Four drums of free product, tested during a previous report period, were removed from the Site for disposal in the current report period. The disposal manifest is included in Attachment B.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is currently scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-

9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment C. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, OUII-E, and OUII-F, ranging in thickness between 0.01 ft. (monitoring well MW-E) and 1.67 ft. (monitoring well MW-D). Free product was not recovered from the off-site monitoring wells during the report period.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. [Note: Free product was detected in well OUII-E on one occasion in the previous report period and once in the current report period at a reported thickness of 0.01 ft. on both occasions. These measurements may have been the result of equipment error.] As shown on Figure 3, the amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. Except for OUII-D, which had a decreasing trend during the summer months in 2017 through 2021, but an increase in 2022 and 2023; the thicknesses of free product measured in the off-site monitoring wells during this period are comparable or lower to the thicknesses measured in previous report periods during a similar timeframe (i.e., October through December). The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment C.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). Free product was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event and free product has not been previously been detected in well WB-9.). The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on October 13, 2023 by MNR. A copy of the inspection completed on October 13, 2023 is provided in Attachment D.

During the October 13, 2023 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Repair of stick-up well AI 1-11 is required. Reportedly, the PVC was knocked over and sheared at ground level.

The next bi-annual inspection is scheduled for April 2024.

EMERGENCY OU-I AND OU-II INSPECTION: Emergency inspections of OU-I and OU-II were not required during the current report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between January 1, 2024 and March 31, 2024), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1 and AI2-3 using the Spill Buster™ systems, or alternative methods if deemed necessary. Alternative measures will be required to remove free product from other wells since the Spill Buddy™ is reportedly no longer operational. MNR is currently in the process of identifying alternative options (e.g., dedicated auto bailers, peristaltic pump, alternative product only pumps, etc.), and the results of this evaluation will be presented in a subsequent status report. The off-site monitoring wells will continue to be monitored on a weekly basis and free product removed if warranted.

Note: If 0.5 ft. or more of free product is measured in on-site wells; it should be removed. If 1.0 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022 and March 2023. If the apparent blockage observed cannot be removed, a replacement well will be required.

Monitoring well AI 1-11 should be repaired and secured by having the PVC cut flush and a j-plug secured at the top of the PVC casing.

The next OU-I/OU-II inspection is due on or about April 30, 2024. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., January 1, 2024 through March 31, 2024) will be submitted in April 2024.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: October 1, 2023 through December 31, 2023
Table 2: Historic Free Product Removal Totals: December 1, 2012 through September 30, 2023
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: October 2023
Figure 2: Summary of Free Product Removal for the Report Periods October 1, 2023 – December 31, 2023 and July 1, 2023 – September 30, 2023
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: October 1, 2023 – December 31, 2023
Attachment B: Drum Disposal Manifest
Attachment C: Off-Site Monitoring Well Hydrographs
Attachment D: Site Inspection

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: October 1, 2023 through December 31, 2023

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0.25
Total	**0.25**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	1.9
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**1.875**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	0
VE2-1	0
Total	**0**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	0.75
FA4-15	0
FA4-16	0
FA4-17	1.25
FA4-18	0
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	2.5
VE4-1	0
VE4-5	1.25
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**5.75**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - September 30, 2023

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.31
Total	**196.805**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	24.89
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**34.882**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1086.43
VE2-1	0
Total	**1088.06**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	314.44
FA4-15	87.79
FA4-16	76.56
FA4-17	90.6
FA4-18	120.22
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1917.4
VE4-1	0
VE4-5	239.41
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3790.00**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

N

LEGEND:

- AI1-12 (4.21 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made October 2023
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	01-2024
DATE DRAWN	01-2024
DATE ISSUED	01-04-2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

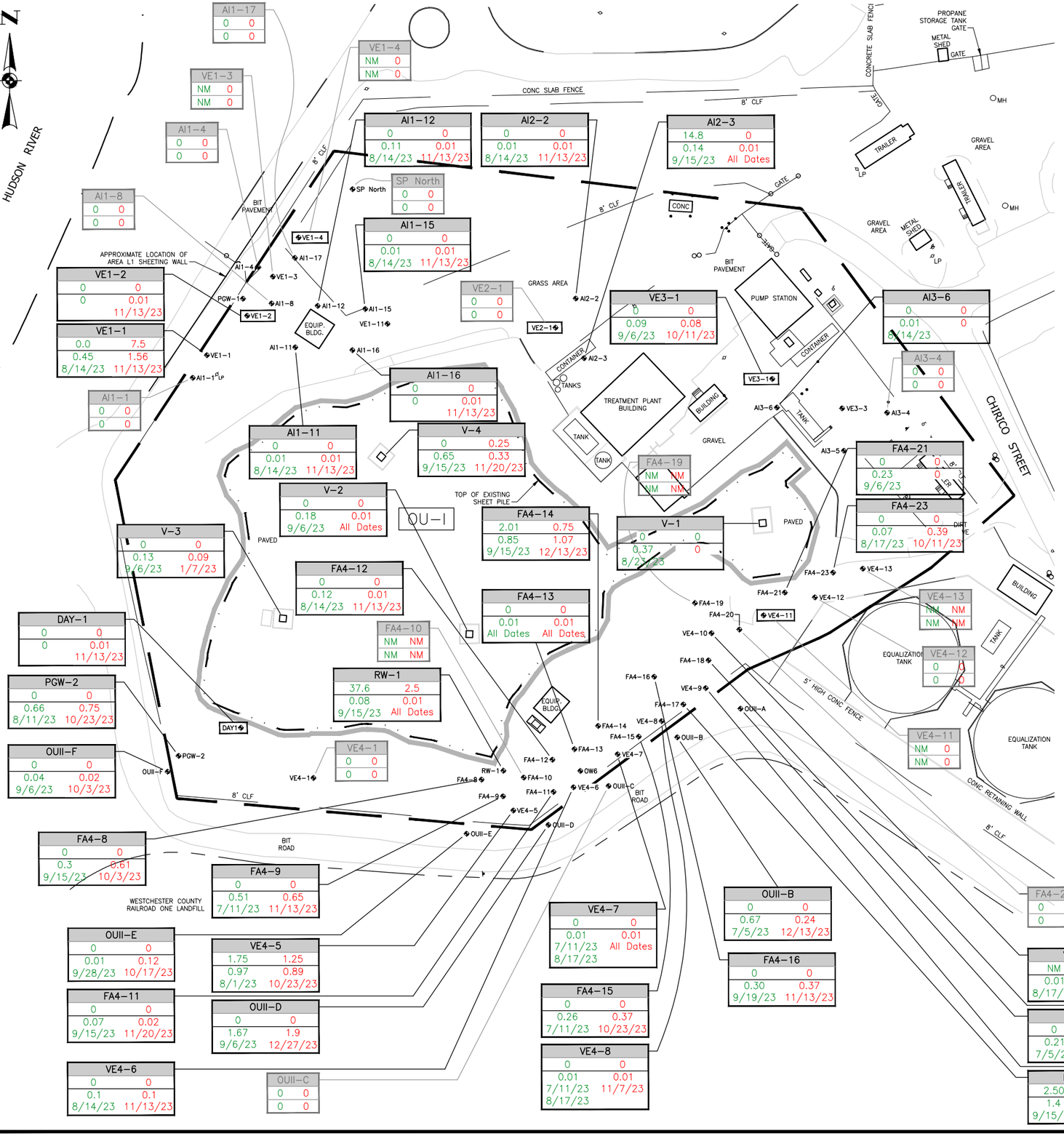
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: October 2023

Project No.
23-3690M

FIGURE 1



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- VE1-3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1-2 — Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- V-1 — OU-I Contingency Vapor Extraction System Wells
- FA4-14 / 2.01 0.75 / 0.85 1.07 / 9/15/23 12/13/23
  - Long-Term Monitoring Well Identification
  - Free Product Removed (Gallons) During Report Period
  - Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period July 1, 2023 Through September 30, 2023 Shown In Green (Left)

Measurements Made During The Report Period October 1, 2023 Through December 31, 2023 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

SITE PLAN
1" = 80'

0' 80' 160' 240'

DATE 1/2024
PROJECT MANAGER HMM
DATE DRAWN 1/5/2024
DRAWN BY RJM/CPS/TW
DATE ISSUED 1/5/2024
SCALE As Noted

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods July - September 2023 and October - December 2023

PROJECT NO.
23-3690M

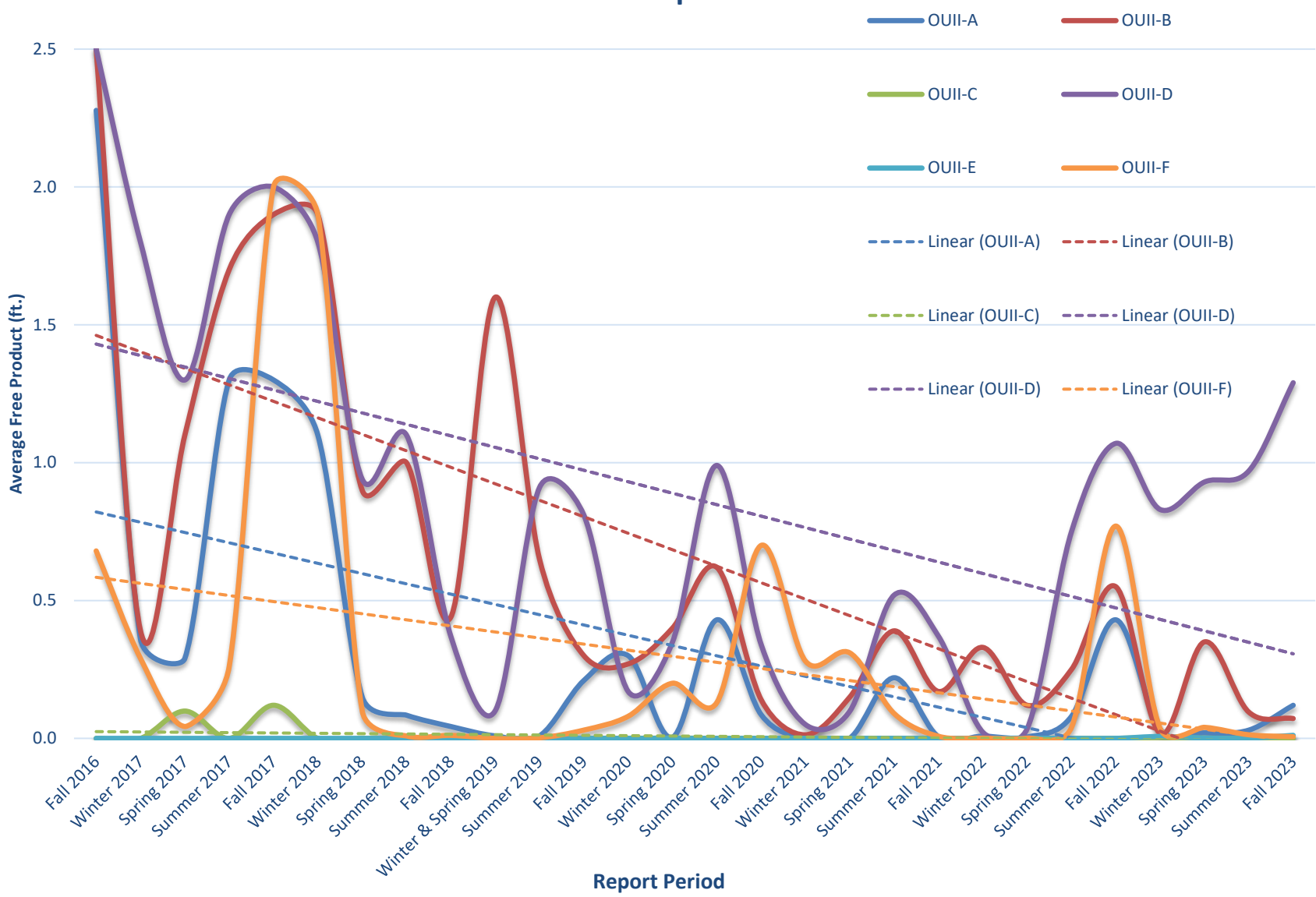
FIGURE 2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb

Time Plotted: Friday, January 5, 2024 9:08:45 AM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period Oct-Dec 2023.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
October 1, 2023 through December 31, 2023

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	13.07	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	13.35	13.36	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	3.6	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.85	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	-	15.6	0	0	
11/7/2023	-	15.54	0	0	
12/13/2023	-	15.71	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	16.02	16.03	0.01	0	
11/7/2023	16.32	16.33	0.01	0	
12/13/2023	16.72	16.73	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	15.68	15.69	0.01	0	
11/7/2023	15.95	16.04	0.09	0	
12/13/2023	16.38	16.39	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	14.88	14.96	0.08	0	
10/11/2023	14.85	14.94	0.09	0.25	
10/17/2023	14.98	15.15	0.17	0	
10/23/2023	15.05	15.25	0.2	0	
11/7/2023	15.15	15.36	0.21	0	
11/13/2023	15.41	15.59	0.18	0	
11/20/2023	15.59	15.92	0.33	0	
11/28/2023	15.5	15.81	0.31	0	
12/8/2023	15.61	15.82	0.21	0	
12/13/2023	15.55	15.88	0.33	0	
12/20/2023	14.99	15.21	0.22	0	
12/27/2023	14.82	14.99	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	10.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	9.61	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.74	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	13.21	13.22	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	16.35	16.36	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	17.95	17.96	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	13.31	13.32	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	11.46	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	-	8.9	0	0	
10/11/2023	-	8.45	0	0	
10/17/2023	-	8.44	0	0	
10/23/2023	-	8.51	0	0	
11/7/2023	-	8.54	0	0	
11/13/2023	-	8.91	0	0	
11/20/2023	-	9.01	0	0	
11/28/2023	-	9	0	0	
12/8/2023	-	8.99	0	0	
12/13/2023	-	8.91	0	0	
12/20/2023	-	8.06	0	0	
12/27/2023	-	8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	7.83	9.39	1.56	1.875	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	8.7	8.71	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	7.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	9.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	8.2	8.21	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	14.42	14.43	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2023	14.45	14.46	0.01	0	Drum-0.38
10/11/2023	14.41	14.42	0.01	0	Drum-0.39
10/17/2023	14.62	14.63	0.01	0	Drum-0.45
10/23/2023	14.63	14.64	0.01	0	Drum-0.46
11/7/2023	14.66	14.67	0.01	0	drum 2.74
11/13/2023	14.71	14.72	0.01	0	
11/20/2023	15.01	15.02	0.01	0	drum 0.54
11/28/2023	14.81	14.82	0.01	0	top of oil (drum) 2.64
12/8/2023	14.81	14.82	0.01	0	drum 0.56
12/13/2023	14.72	14.73	0.01	0	drum 0.67
12/20/2023	14.34	14.35	0.01	0	drum 0.85
12/27/2023	14.25	14.26	0.01	0	drum 0.9

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.65 ft and equal to approximately 55 gallons. Comment on 9/28/2023 stated '0.39 ft'. Approximately 65.8 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	10.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	13.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	16.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	10.31	10.39	0.08	0	
11/7/2023	10.52	10.58	0.06	0	
12/13/2023	10.55	10.56	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	15.32	15.33	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2023	14.84	15.45	0.61	0	Drum-0.59
10/11/2023	15.42	15.43	0.01	0	Drum-0.62
10/17/2023	15.7	15.71	0.01	0	Drum-0.65
10/23/2023	15.55	15.56	0.01	0	Drum-0.61
11/7/2023	15.71	15.72	0.01	0	
11/13/2023	16.9	16.91	0.01	0	
11/20/2023	16.1	16.12	0.02	0	
11/25/2023	16.01	16.02	0.01	0	
11/28/2023	16.01	16.02	0.01	0	
12/8/2023	15.58	15.69	0.11	0	
12/13/2023	15.49	15.75	0.26	0	
12/20/2023	13.61	13.85	0.24	0	
12/27/2023	13.55	13.85	0.3	0	

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.65 ft and equal to approximately 55 gallons. Comment on 9/28/2023 stated 'drum 0.59 ft'. Free product not removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	6.95	7.6	0.65	0	
12/13/2023	5.86	6.01	0.15	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	10.03	10.04	0.01	0	
10/11/2023	10.14	10.15	0.01	0	
10/17/2023	10.49	10.5	0.01	0	
10/23/2023	10.13	10.14	0.01	0	
11/7/2023	10.33	10.34	0.01	0	
11/13/2023	10.55	10.56	0.01	0	
11/20/2023	11.00	11.02	0.02	0	
11/28/2023	10.95	10.96	0.01	0	
12/8/2023	10.21	10.22	0.01	0	
12/13/2023	9.92	9.93	0.01	0	
12/20/2023	9.45	9.46	0.01	0	
12/27/2023	9.41	9.42	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	13.65	13.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	9.52	9.53	0.01	0	
10/11/2023	9.61	9.62	0.01	0	
10/17/2023	9.92	9.93	0.01	0	
10/23/2023	9.51	9.52	0.01	0	
11/7/2023	9.73	9.74	0.01	0	
11/13/2023	9.90	9.91	0.01	0	
11/20/2023	10.31	10.32	0.01	0	
11/28/2023	13.00	13.01	0.01	0	
12/8/2023	9.69	9.70	0.01	0	
12/13/2023	9.38	9.39	0.01	0	
12/20/2023	8.82	8.83	0.01	0	
12/27/2023	8.62	8.63	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	12.25	12.49	0.24	0	
10/11/2023	12.23	12.62	0.39	0	
10/17/2023	12.50	12.95	0.45	0	
10/23/2023	12.23	13.11	0.88	0.75	
11/7/2023	12.45	12.66	0.21	0	
11/13/2023	13.78	13.93	0.15	0	
11/20/2023	12.89	13.28	0.39	0	
11/28/2023	12.81	13.20	0.39	0	
12/8/2023	12.44	12.78	0.34	0	
12/13/2023	12.11	13.18	1.07	0	
12/20/2023	11.85	11.86	0.01	0	
12/27/2023	11.80	11.81	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	9.11	9.29	0.18	0	
10/11/2023	9.15	9.36	0.21	0	
10/17/2023	9.48	9.75	0.27	0	
10/23/2023	9.18	9.55	0.37	0	
11/7/2023	9.41	9.74	0.33	0	
11/13/2023	9.55	9.91	0.36	0	
11/20/2023	9.92	10.01	0.09	0	
11/28/2023	9.9	10.01	0.11	0	
12/8/2023	9.31	9.64	0.33	0	
12/13/2023	8.97	9.11	0.14	0	
12/20/2023	8.56	8.57	0.01	0	
12/27/2023	8.42	8.43	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	13.42	13.59	0.17	0	
10/11/2023	13.31	13.52	0.21	0	
10/17/2023	13.65	13.85	0.2	0	
10/23/2023	13.39	13.68	0.29	0	
11/7/2023	13.48	13.76	0.28	0	
11/13/2023	12.68	13.05	0.37	0	
11/20/2023	13.88	14.11	0.23	0	
11/28/2023	13.62	13.85	0.23	0	
12/8/2023	13.51	13.74	0.23	0	
12/13/2023	13.28	13.48	0.2	0	
12/20/2023	12.76	12.81	0.05	0	
12/27/2023	12.66	12.72	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	10.46	10.72	0.26	0	
10/11/2023	9.38	9.55	0.17	0	
10/17/2023	9.61	10.05	0.44	0	
10/23/2023	9.33	10.39	1.06	1.25	
11/7/2023	9.61	9.89	0.28	0	
11/13/2023	9.85	10.2	0.35	0	
11/20/2023	10.05	10.5	0.45	0	
11/28/2023	10.01	10.48	0.47	0	
12/8/2023	9.66	10.03	0.37	0	
12/13/2023	9.25	10.21	0.96	0	
12/20/2023	8.69	9.11	0.42	0	
12/27/2023	8.52	8.9	0.38	0	

Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	11.88	11.89	0.01	0	
10/11/2023	11.93	11.96	0.03	0	
10/17/2023	12.09	12.44	0.35	0	
10/23/2023	11.91	11.96	0.05	0	
11/7/2023	12.01	12.25	0.24	0	
11/13/2023	12.23	12.6	0.37	0	
11/20/2023	12.45	12.85	0.40	0	
11/28/2023	12.50	12.88	0.38	0	
12/8/2023	12.08	12.09	0.01	0	
12/13/2023	11.84	11.85	0.01	0	
12/20/2023	11.41	11.49	0.08	0	
12/27/2023	11.38	11.39	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	12.11	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	12.63	12.89	0.26	0	
11/7/2023	12.78	12.85	0.07	0	
12/13/2023	12.78	12.95	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	12.05	12.44	0.39	0	
11/7/2023	12.22	12.54	0.32	0	
12/13/2023	12.18	12.26	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	4.71	5.02	0.31	0	
10/11/2023	5.02	5.15	0.13	0	
10/17/2023	4.72	5.00	0.28	0	
10/23/2023	4.88	5.63	0.75	0	
11/7/2023	5.55	5.81	0.26	0	
11/13/2023	5.84	6.22	0.38	0	
11/20/2023	6.00	6.41	0.41	0	
11/28/2023	5.88	6.5	0.62	0	
12/8/2023	5.08	5.11	0.03	0	
12/13/2023	4.53	4.88	0.35	0	
12/20/2023	4.02	4.19	0.17	0	
12/27/2023	3.89	4.11	0.22	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
10/3/2023	13.83	13.84	0.01	0	Drum-1.19
10/11/2023	13.77	13.78	0.01	0	Drum-1.19
10/17/2023	14.01	14.02	0.01	0	Drum-1.20
10/23/2023	13.85	13.86	0.01	0	Drum-1.20
10/27/2023	15.28	15.29	0.01	0	
11/7/2023	13.98	13.99	0.01	0	drum 1.19
11/13/2023	14.15	14.16	0.01	0	drum 1.19
11/20/2023	14.48	14.49	0.01	0	drum 1.28
11/28/2023	15	15.01	0.01	0	top of oil (drum) 1.90
12/8/2023	13.95	13.96	0.01	0	drum 1.32
12/13/2023	13.71	13.72	0.01	0	drum 1.32
12/20/2023	13.46	13.47	0.01	0	drum 1.32
12/27/2023	13.4	13.41	0.01	0	drum 1.32

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.65 ft and equal to approximately 55 gallons. Comment on 9/28/2023 stated 'drum 1.2 ft'. Approximately 2.5 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	7.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	8.6	8.98	0.38	0	
10/17/2023	8.8	9.25	0.45	0	
10/23/2023	8.65	9.54	0.89	1.25	
11/7/2023	8.86	8.89	0.03	0	
11/13/2023	9.01	9.18	0.17	0	
11/20/2023	9.35	9.67	0.32	0	
11/28/2023	9.22	9.51	0.29	0	
12/8/2023	8.77	8.89	0.12	0	
12/13/2023	8.61	8.62	0.01	0	
12/20/2023	8.35	8.58	0.23	0	
12/27/2023	8.28	8.5	0.22	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	6.90	6.91	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	6.58	6.59	0.01	0	
11/7/2023	6.87	6.88	0.01	0	
12/13/2023	6.55	6.56	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	-	6.75	0	0	
11/7/2023	7.02	7.03	0.01	0	
12/13/2023	-	6.38	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/11/2023	7.36	7.37	0.01	0	
11/7/2023	7.51	7.52	0.01	0	
12/13/2023	6.91	6.92	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	11.6	11.78	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/13/2023	-	13.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	7.56	7.57	0.01	0	
10/11/2023	-	7.55	0	0	
10/17/2023	7.50	7.62	0.12	0	
10/23/2023	-	7.49	0	0	
11/7/2023	-	7.25	0	0	
11/13/2023	8.10	8.11	0.01	0	
11/20/2023	8.15	8.16	0.01	0	
11/28/2023	8.00	8.01	0.01	0	
12/8/2023	7.80	7.85	0.05	0	
12/13/2023	-	7.91	0	0	
12/20/2023	6.81	6.82	0.01	0	
12/27/2023	6.72	6.73	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	7.50	7.51	0.01	0	
10/11/2023	7.40	7.41	0.01	0	
10/17/2023	7.45	7.50	0.05	0	
10/23/2023	7.13	7.14	0.01	0	
11/7/2023	6.95	6.96	0.01	0	
11/13/2023	7.65	7.72	0.07	0	
11/20/2023	7.82	7.90	0.08	0	
11/28/2023	7.90	7.99	0.09	0	
12/8/2023	7.55	7.65	0.10	0	
12/13/2023	7.00	7.24	0.24	0	
12/20/2023	6.62	6.71	0.09	0	
12/27/2023	6.58	6.68	0.10	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	-	6.90	0	0	
10/11/2023	-	7.16	0	0	
10/17/2023	-	6.85	0	0	
10/23/2023	-	6.59	0	0	
11/7/2023	-	6.65	0	0	
11/13/2023	-	7.40	0	0	
11/20/2023	-	7.49	0	0	
11/28/2023	-	7.35	0	0	
12/8/2023	-	7.20	0	0	
12/13/2023	-	6.65	0	0	
12/20/2023	-	5.91	0	0	
12/27/2023	-	5.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	7.40	8.61	1.21	0	
10/11/2023	7.41	8.65	1.24	0	
10/17/2023	7.42	8.51	1.09	0	
10/23/2023	7.45	8.46	1.01	0	
11/7/2023	7.50	7.82	0.32	0	
11/13/2023	7.81	9.20	1.39	0	
11/20/2023	7.95	9.35	1.40	0	
11/28/2023	7.86	9.00	1.14	0	
12/8/2023	7.89	9.55	1.66	0	
12/13/2023	7.71	9.01	1.30	0	
12/20/2023	7.05	8.92	1.87	0	
12/27/2023	7.00	8.90	1.90	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	7.55	7.56	0.01	0	
10/11/2023	-	7.75	0	0	
10/17/2023	7.41	7.53	0.12	0	
10/23/2023	-	7.52	0	0	
11/7/2023	-	8.00	0	0	
11/13/2023	-	7.79	0	0	
11/20/2023	-	7.82	0	0	
11/28/2023	-	7.54	0	0	
12/8/2023	-	8.01	0	0	
12/13/2023	-	7.44	0	0	
12/20/2023	-	8.13	0	0	
12/27/2023	-	8.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2023	3.63	3.65	0.02	0	
10/11/2023	4.10	4.11	0.01	0	
10/17/2023	3.60	3.62	0.02	0	
10/23/2023	3.87	3.88	0.01	0	
11/7/2023	3.92	3.93	0.01	0	
11/13/2023	-	5.00	0.00	0	
11/20/2023	-	5.11	0.00	0	
11/28/2023	-	5.01	0.00	0	
12/8/2023	-	4.45	0.00	0	
12/13/2023	-	3.49	0.00	0	
12/20/2023	-	2.89	0.00	0	
12/27/2023	-	3.01	0.00	0	

ATTACHMENT B:

Drum Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD 084 006 477	2	(908) 354-0210	106900-NH-2

GENERATOR

5. Generator's Name and Mailing Address
MTA - METRO NORTH RAILROAD
525 NORTH BROADWAY
WHITE PLAINS, NY 10603
Generator's Phone: (929) 695-0884

Generator's Site Address (if different than mailing address)
HARMON YARD, 100 CROTON HARMON YAF
CROTON ON HUDSON, NY 10520

6. Transporter 1 Company Name: ACV Environmental Services, Inc
U.S. EPA ID Number: NJD 003 812 047

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH, NJ 07206
Facility's Phone: (908) 355-5800
U.S. EPA ID Number: NJD 002 200 046

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. Non DOT/Non-RCRA Solid (Oily Solids)	~~000~~ XX5	DM	3500	P	
2. Non DOT/ Non RCRA Regulated Material, (Grease)	003	DM	75	P	
3. Non DOT/Non-RCRA Liquid (Misc OUII Oil)	004	DF	1200	G P	
4. Non DOT/Non RCRA Material (TRANSFORMERS)	001	CF	15	P	

13. Special Handling Instructions and Additional Information
1. 221604 / (48) OILY SOLIDS 2. 978537-LS / Grease (NH-22) 3. 220041 / (70) OUII OIL RECOVERY 4. 231843 / NON PCB TRANSFORMERS
[W 74 87 106900]
Drill #013162
PM#4 NT ATTACH

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: NICK MASCONE ON BEHALF OF MNR
Signature
Month: 12 Day: 12 Year: 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TRAVIS DUMA
Signature
Month: 12 Day: 12 Year: 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number	20. Page	21. Waste Tracking Number
	NYD 084 006 477	2	106900-NH-2

22. Generator's Name

MTA - METRO NORTH RAILROAD

23. Transporter 1 Company Name: AEV ENVIRONMENTAL INC — U.S. EPA ID Number: NJD063512647

24. Transporter ____ Company Name: — U.S. EPA ID Number:

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	
	005 Non DOT/Non RCRA Material (TRANSFORMERS)	001	~~DW~~ DF	50	P	
	006 Non DOT/Non-RCRA Solid (Non -PCB Capacitors)	001	CF	200	P	

29. Special Handling Instructions and Additional Information

5. 231843 / NON PCB TRANSFORMERS 6. 245553 / (16) NON-PCB CAPACITORS

DECAL # 613162

GENERATOR

TRANSPORTER

30. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TRAVIS DOMM	T. D	10	17	23

31. Transporter ____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

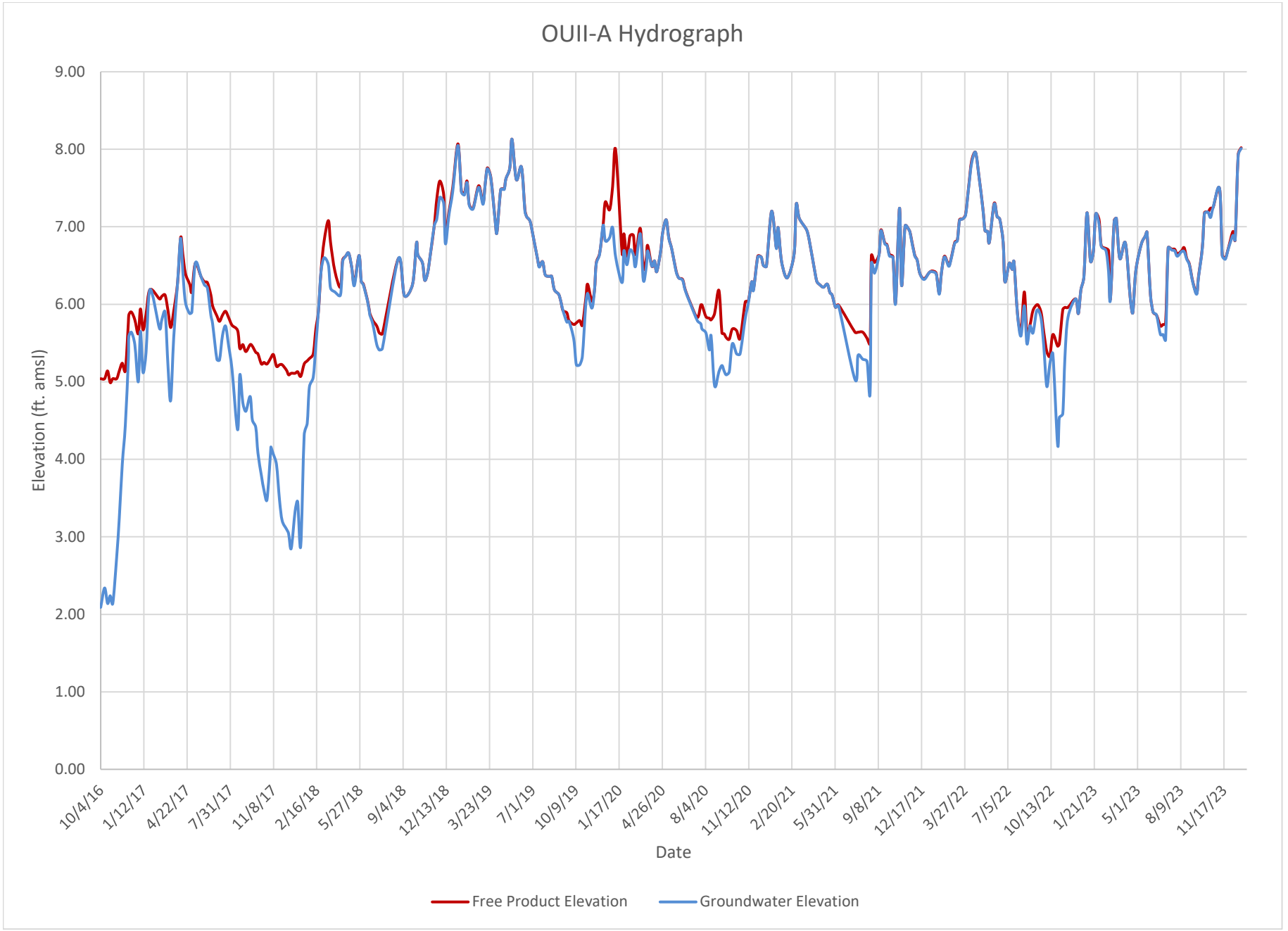
32. Discrepancy

170-BLC-O 5 11978 (Rev. 8/06)

GENERATOR'S/SHIPPER'S INITIAL COPY

ATTACHMENT C

Off-Site Monitoring Well Hydrographs


OUII-A Hydrograph
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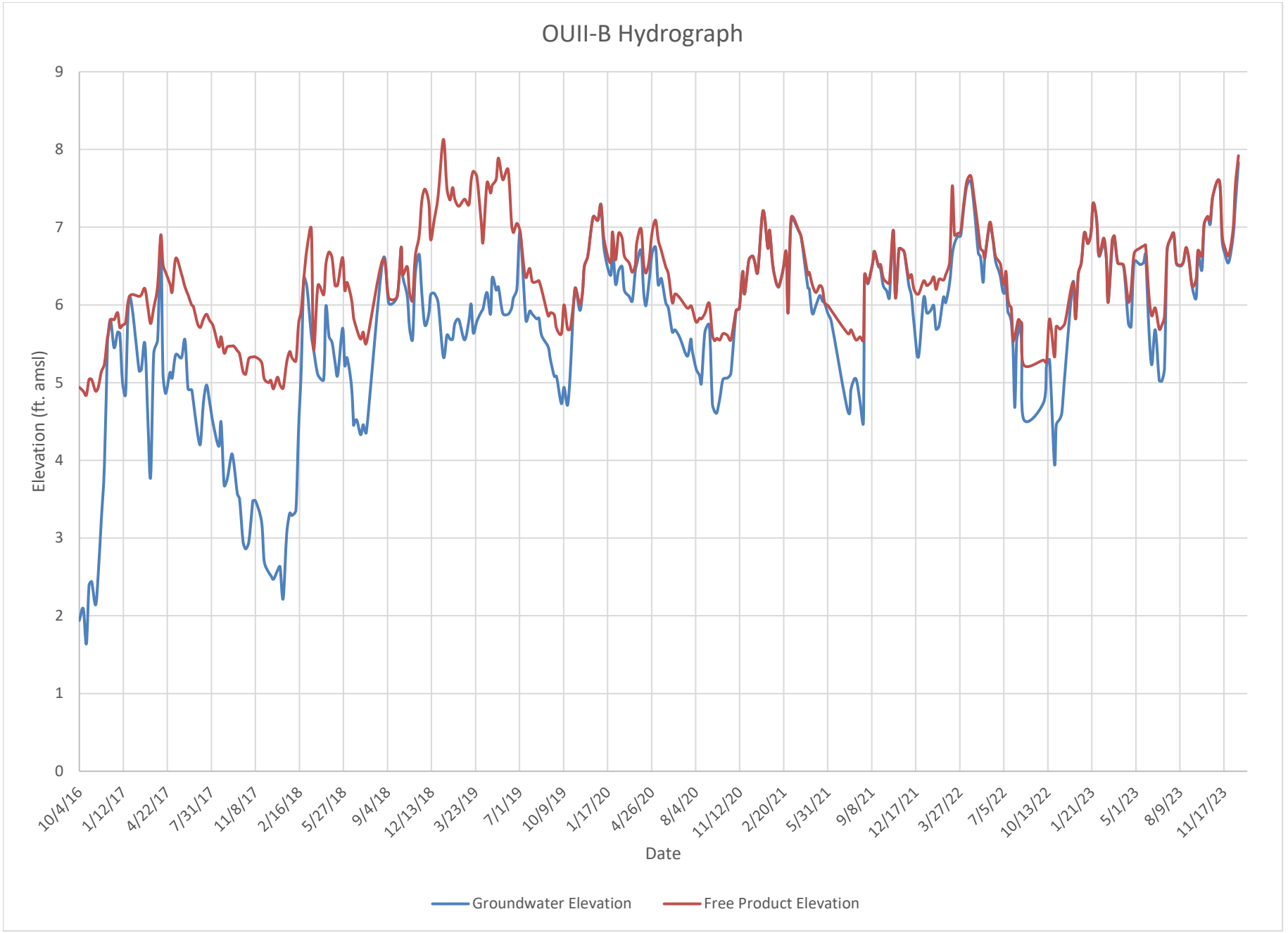
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
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11/12/20
2/20/21
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9/8/21
12/17/21
3/27/22
7/5/22
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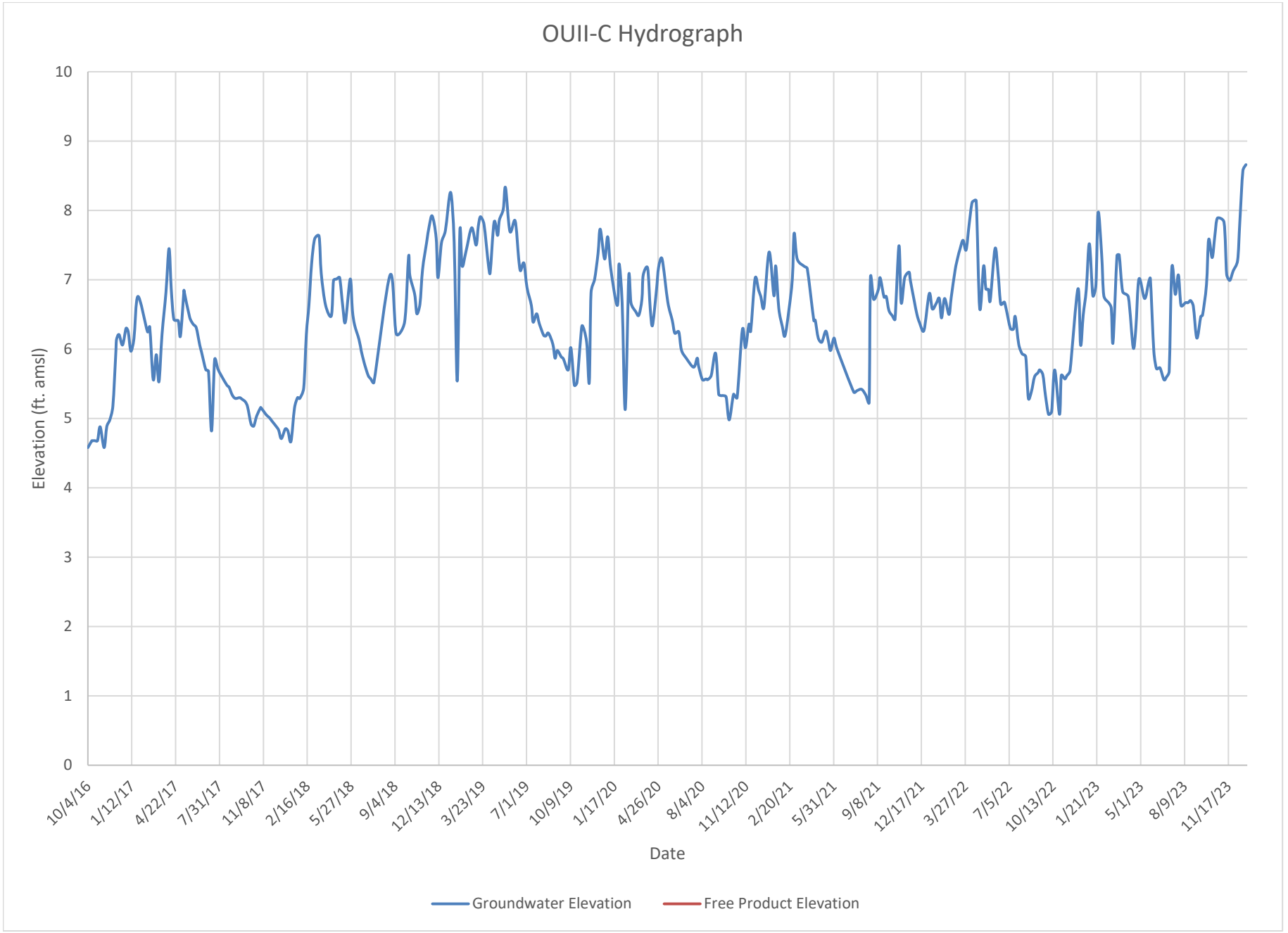
1/21/23
5/1/23
8/9/23
11/17/23
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
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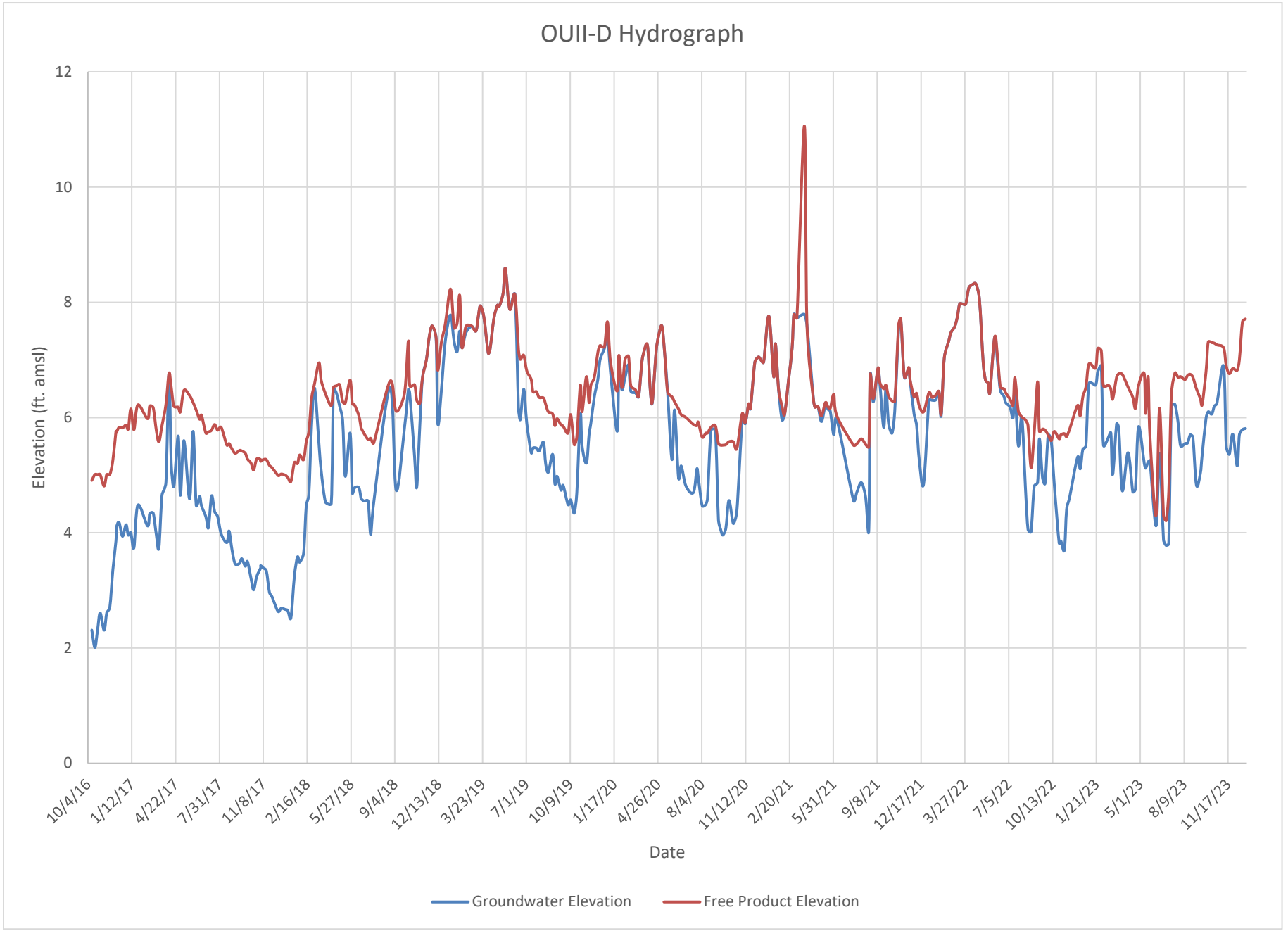
11/17/23
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
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1/17/20
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9/8/21
12/17/21
3/27/22
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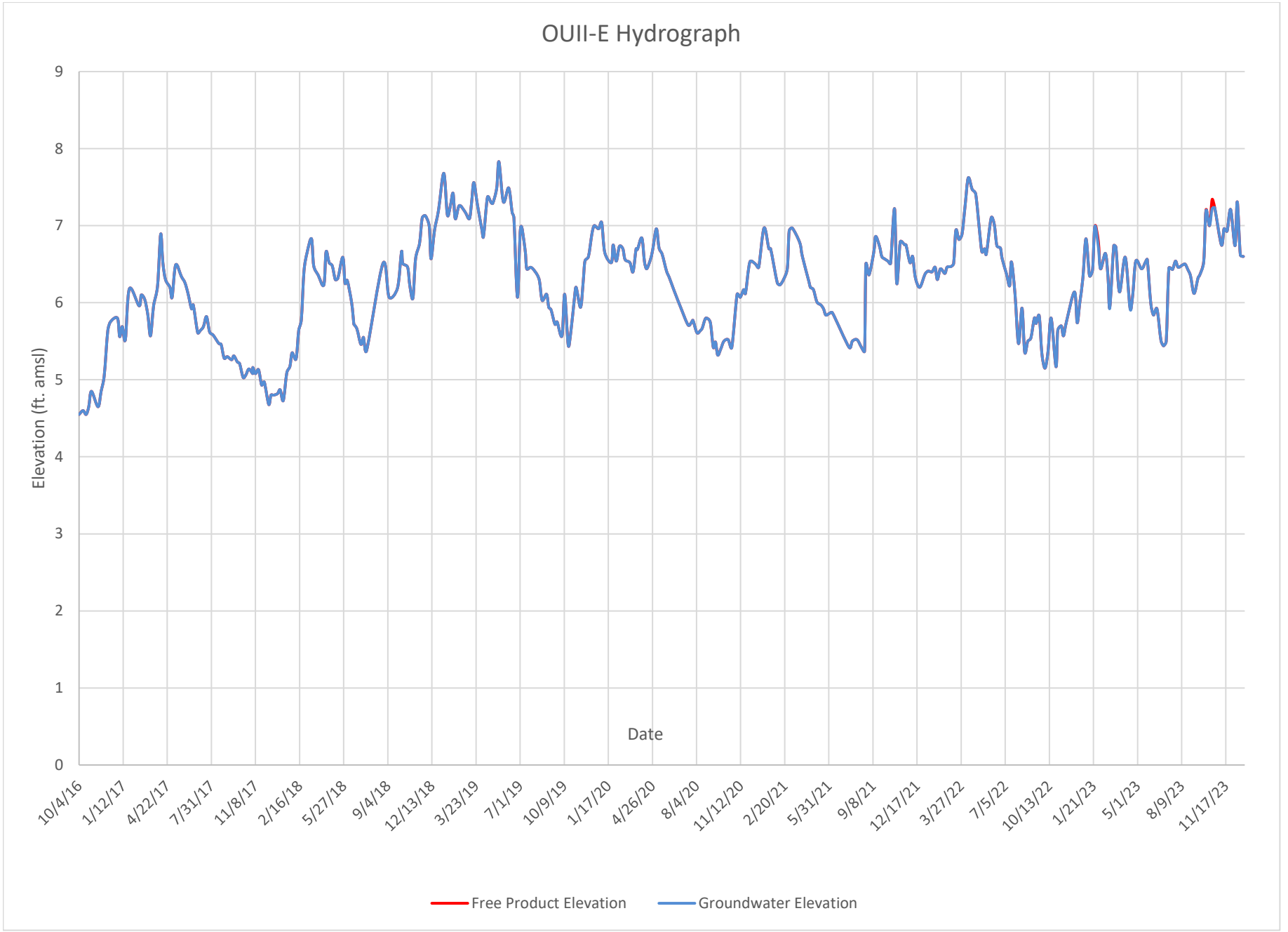
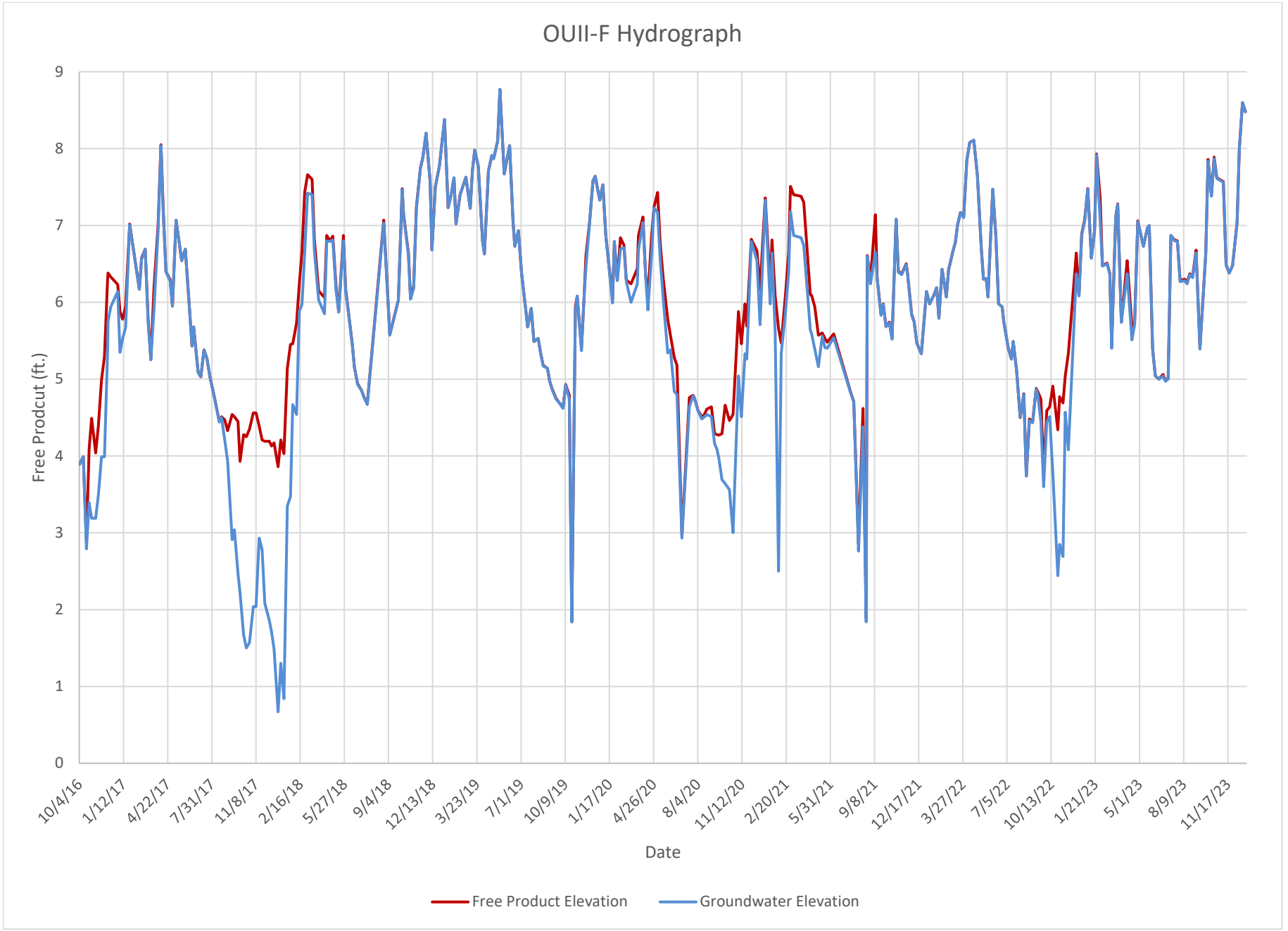
11/17/23
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Site Inspection

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II Inspection Form NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		x	
Is there any evidence of settlement?		x	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	x		
Is there debris or other material on the slopes?		x	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?			

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Repair required of stick up well AI 1-11 in 2024. Well was knocked over and pvc pipe was sheared off at ground level

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

Drainage channel clear

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full? **N/A**			
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

4 Drums shipped out for disposal on 10/12/23. Shipment BOL and Samples attached

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	x		

Specify Correction Actions Needed:

Date of Inspection: 10/13/2023 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

NAPL Area L4

NAPL Collection Area

NAPL Area L4

NAPL Area L2

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JANUARY 1, 2024 THROUGH MARCH 31, 2024

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between January 1, 2024 and March 31, 2024 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on February 7, 2024 and February 8, 2024 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and December 31, 2023) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between January 1, 2024 and March 31, 2024), and the preceding report period (i.e., between October 1, 2023 and December 31, 2023) is included as Figure 2.

During the report period, wells RW-1 and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ system was formerly located in well FA4-8; however, this system is no longer functional. The Spill Buster™ and Spill Buddy™ systems were purchased from Clean Earth Technology. Reportedly, Spill Buster™ and Spill Buddy™ systems are no longer available for purchase or repair.]

- Free product was not removed from well AI2-3 during the current report period or the previous report period (i.e., October 1, 2023 to December 31, 2023). During the current report period,5.2 gallons of free product were removed from well RW-1 compared to 2.5 gallons in the previous report period. In a similar calendar period (i.e., between January 1, 2023 to March 31, 2023) approximately 3.0 gallons of free product was removed from well AI2-3, but free product was not removed from well RW-1.

- A total of approximately 8.27 gallons of free product was removed from wells (i.e., removed from wells FA4-17, FA4-18, and RW-1) at the Site during the current report period. Free product was only removed from wells in the NAPL Area L4. The total amount of free product removed in the previous reporting period (i.e., between October 1, 2023 to December 31, 2023) was approximately 7.9 gallons (i.e., removed from wells V4, VE1-1, FA4-14, RW-1, and VE4-5). In a similar calendar period (i.e., between January 1, 2023 to March 31, 2023) 16.41 gallons were removed (i.e., removed from wells V4, AI2-3, FA4-14, FA4-15, FA4-16, FA4-18, and VE4-5). Since January 1, 2013, approximately 5,137 gallons of free product or approximately 110 gallons per reporting period (i.e., every three months) have been removed from the Site.

The free product removed is placed in a 55-gallon drum, which is stored in a waste accumulation area. Samples were not collected for testing in the current report period. Drums were not removed from the Site for disposal in the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is currently scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of

the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, OUII-E, and OUII-F, ranging in thickness between 0.01 ft. (monitoring wells MW-A, MW-E, and MW-F) and 3.66 ft. (monitoring well MW-D). Free product was not recovered from the off-site monitoring wells during the report period.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. As shown on Figure 3, the thickness of free product measured in monitoring well OUII-B and OUII-D has increased compared to previous report periods. The thicknesses of free product measured in the off-site monitoring wells OUII-A, OUII-E, and OUII-F during this period are comparable or lower to the thicknesses measured in previous report periods during a similar timeframe (i.e., January through March).

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment B.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). Free product was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event, and free product has not previously been detected in well WB-9 or subsequent to the detection reported on November 13, 2023). The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on October 13, 2023 by MNR. During this inspection, it was determined that repair of stick-up well AI 1-11 is required. Reportedly, the PVC was knocked over and sheared at ground level.

The next bi-annual inspection is scheduled for April 2024.

EMERGENCY OU-I AND OU-II INSPECTION: Emergency inspections of OU-I and OU-II were not required during the current report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between April 1, 2024 and June 30, 2024), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1 and AI2-3 using the Spill Buster™ systems, or alternative methods if deemed necessary. Alternative measures will be required to remove free product from other wells if the Spill Buddy™ fails and can no longer collect free product. MNR is currently in the process of identifying alternative options (e.g., dedicated auto bailers, peristaltic pump, alternative product only pumps, etc.), and the results of this evaluation will be presented in a subsequent status report. The off-site monitoring wells will continue to be monitored on a weekly basis and free product removed if warranted. Note: During the upcoming report period, attempts will be made to remove free product from off-site wells OUII-B and OUII-D, and assess if the amount of free product returns following removal.

Note: Generally if 0.5 ft. or more of free product is measured in on-site wells; it should be removed. If 1.0 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well AI 1-11 should be repaired and secured by having the PVC cut flush and a j-plug secured at the top of the PVC casing.

The next OU-I/OU-II inspection is due on or about April 30, 2024. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., April 1, 2024 through June 30, 2024) will be submitted in July 2024.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If comments are received from the NYSDEC on the August 31, 2022 document describing an alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate. [Note: A meeting is currently scheduled for the next report period tl review the next steps in the remediation of OUI/OUII. The results of this meeting will be summarized in the status report for the next report period.]

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: January 1, 2024 through March 31, 2024
Table 2: Historic Free Product Removal Totals: December 1, 2012 through December 31, 2023
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: February 2024
Figure 2: Summary of Free Product Removal for the Report Periods January 1, 2024 – March 31, 2024 and October 1, 2023 – December 31, 2023
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: January 1, 2024 – March 31, 2024
Attachment B: Off-Site Monitoring Well Hydrographs

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period:January 1, 2024 through March 31, 2024

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0
Total	**0**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	0
VE2-1	0
Total	**0**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	0
FA4-15	0
FA4-16	0
FA4-17	1.38
FA4-18	0.69
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	5.2
VE4-1	0
VE4-5	1
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**8.27**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - December 31, 2023

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.56
Total	**197.055**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	26.79
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**36.782**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1086.43
VE2-1	0
Total	**1088.06**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	315.19
FA4-15	87.79
FA4-16	76.56
FA4-17	91.85
FA4-18	120.22
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1919.9
VE4-1	0
VE4-5	240.66
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3795.75**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006
January 1, 2024 - March 31, 2024	Depth to Static Water Level	6.34-7.55	6.84-8.30	5.60-7.00	8.23-10.05	6.99-7.95	2.61-4.40
	Range of Free Product Thickness (ft.)	0-0.01	0.42-1.33	0	1.64-3.66	0-0.01	0-0.01
	Average Free Product Thickness (ft.)	0.002	0.890	0	2.40	0.002	0.002

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.

2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- AI1-12 (4.74 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made February 2024
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	04-2024
DRAWN BY	CPS
DATE DRAWN	04-2024
SCALE	As Noted
DATE ISSUED	04-18-2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

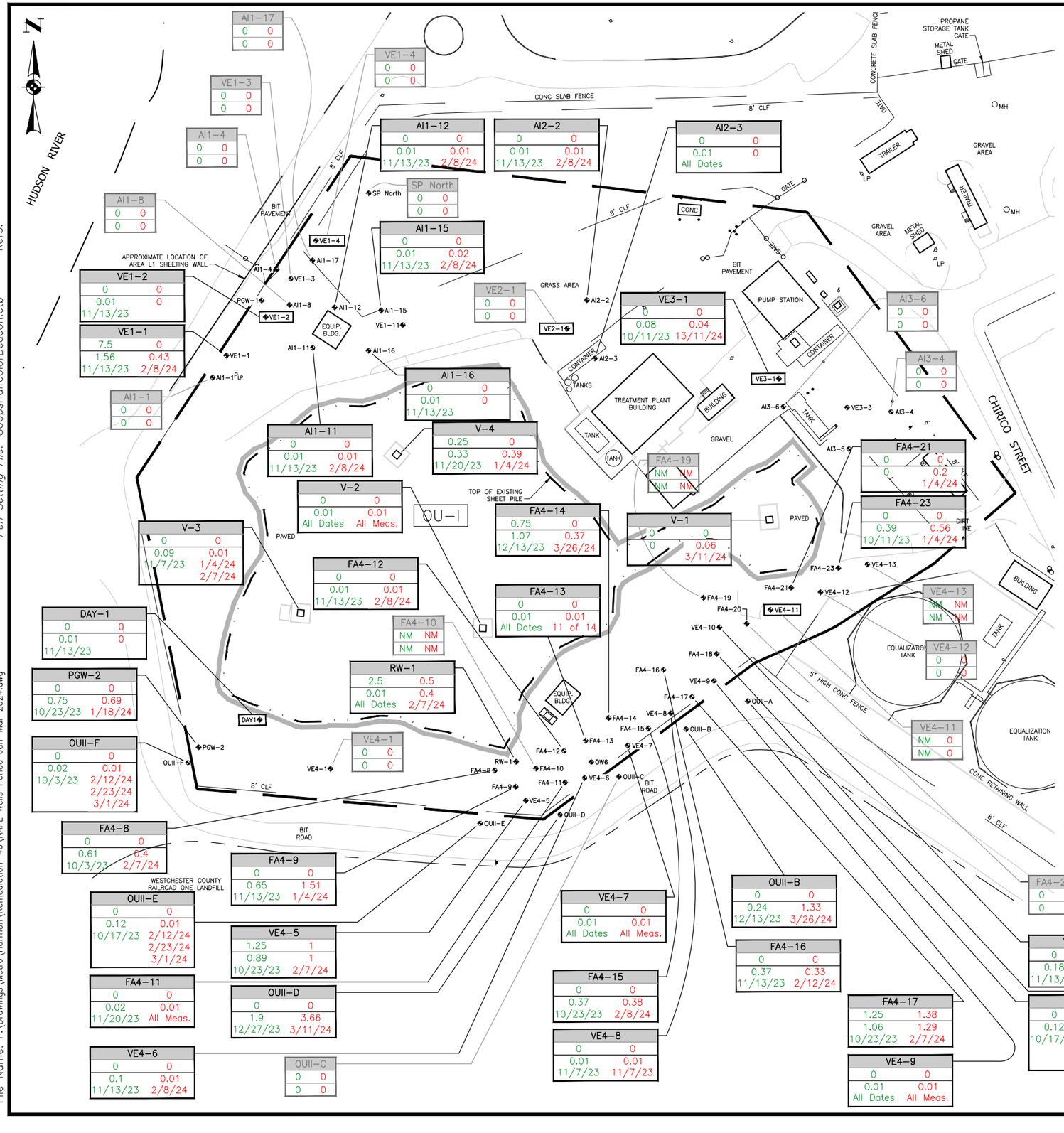
Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: February 2024

Project No.
24-3717M

FIGURE 1



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells
- FA4–14 / 0.75 0 / 1.07 0.37 / 12/13/23 3/26/24 — Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period October 1, 2023 Through December 31, 2023 Shown In Green (Left)

Measurements Made During The Report Period January 1, 2024 Through March 31, 2024 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	HMM
DATE	4/2024
DRAWN BY	RJM/CPS/TW
DATE DRAWN	4/15/2024
SCALE	As Noted
DATE ISSUED	4/16/2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

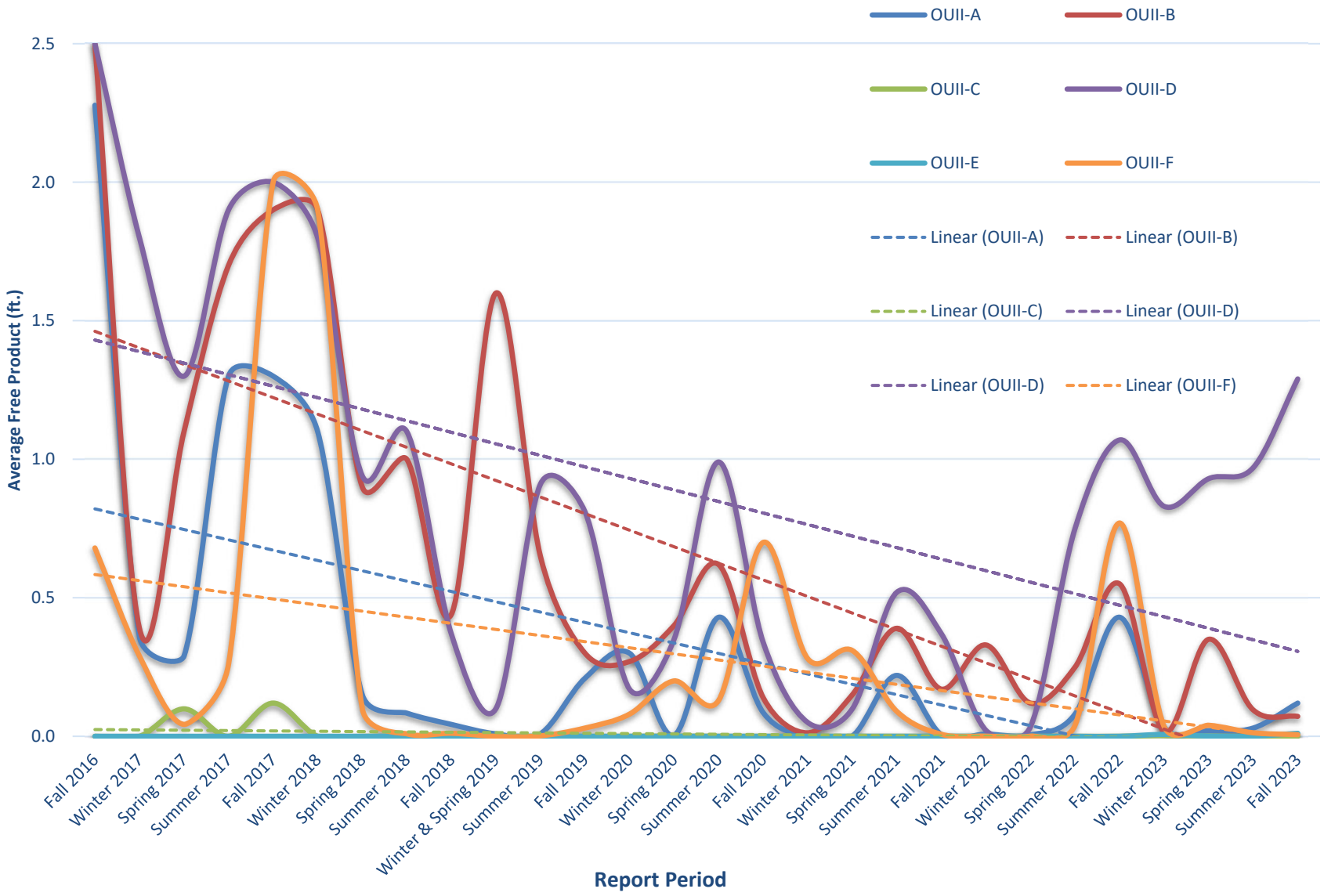
DRAWING TITLE
Summary Of Free Product Removal For The Report Periods October - December 2023 and January - March 2024

PROJECT NO.
24-3717M

FIGURE 2

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb
Ref1:
Ref2:
Ref3:
Time Plotted: Monday, April 15, 2024 4:13:57 PM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Jan–Mar 2024.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
January 1, 2024 through March 31, 2024

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	13.09	13.1	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	3.44	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/7/2024	-	12.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	-	15.29	0	0	
2/7/2024	-	15.41	0	0	
3/11/2024	15.64	15.7	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	15.98	15.99	0.01	0	
2/7/2024	15.95	15.96	0.01	0	
3/11/2024	16.05	16.06	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	15.65	15.66	0.01	0	
2/7/2024	15.63	15.64	0.01	0	
3/11/2024	-	15.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	14.8	15.19	0.39	0	
1/12/2024	14.62	14.63	0.01	0	
1/18/2024	14.52	14.58	0.06	0	
1/24/2024	14.88	14.95	0.07	0	
2/2/2024	14.86	14.91	0.05	0	
2/7/2024	15.26	15.32	0.06	0	
2/12/2024	14.94	14.95	0.01	0	
2/23/2024	14.98	14.99	0.01	0	
3/1/2024	15.08	15.09	0.01	0	
3/7/2024	15.28	15.45	0.17	0	
3/11/2024	14.75	14.91	0.16	0	
3/21/2024	14.8	15.1	0.3	0	
3/26/2024	14.52	14.71	0.19	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	12.2	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	10.19	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	9.09	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	12.5	12.51	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	16.00	16.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	17.02	17.04	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	12.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	10.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	-	8.31	0	0	
1/12/2024	-	7.75	0	0	
1/18/2024	-	8.05	0	0	
1/24/2024	-	8.11	0	0	
2/2/2024	-	8.05	0	0	
2/7/2024	-	8.15	0	0	
2/12/2024	-	8.38	0	0	
2/23/2024	-	8.22	0	0	
3/1/2024	-	8.26	0	0	
3/7/2024	-	8.31	0	0	
3/11/2024	-	8.01	0	0	
3/21/2024	-	8.34	0	0	
3/26/2024	-	8.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	7.52	7.95	0.43	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	8.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	7.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	9.01	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	7.7	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	12.86	12.87	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2024	14.25	14.26	0.01	0	drum 0.74
1/12/2024	14.02	14.03	0.01	0	drum 0.73
1/18/2024	14.05	14.09	0.04	0	drum 0.76
1/24/2024	14.31	14.34	0.03	0	drum 0.75
2/2/2024	14.01	14.06	0.05	0	drum 2.45
2/7/2024	14.45	14.46	0.01	0	drum 0.77
2/8/2024	13.22	13.23	0.01	0	
2/12/2024	14.34	14.44	0.1	0	drum 0.72
2/23/2024	14.4	14.42	0.02	0	drum 0.74
3/1/2024	14.81	14.86	0.05	0	drum 0.70
3/7/2024	14.3	14.35	0.05	0	drum 0.75
3/11/2024	14.05	14.06	0.01	0	drum 0.76
3/21/2024	14.32	14.36	0.04	0	drum 0.69
3/26/2024	14.02	14.06	0.04	0	drum 0.71

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.65 ft and equal to approximately 55 gallons. Comment on 12/27/2023 stated '0.9 ft'. Free product not recovered during reporting period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	8.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	15.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	10.25	10.26	0.01	0	
2/7/2024	10.2	10.21	0.01	0	
3/11/2024	10.01	10.05	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	14.46	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2024	13.82	14.21	0.39	0	
1/12/2024	13.75	14.02	0.27	0	
1/18/2024	14.25	14.41	0.16	0	
1/24/2024	14.54	14.91	0.37	0	
2/2/2024	13.65	14.01	0.36	0	
2/7/2024	14.28	14.68	0.4	0	
2/12/2024	14.96	15.15	0.19	0	
2/23/2024	14.52	14.65	0.13	0	
3/1/2024	14.44	14.46	0.02	0	
3/11/2024	8.72	8.73	0.01	0	
3/21/2024	14.32	14.4	0.08	0	
3/26/2024	14.21	14.35	0.14	0	

Spill Buster™formerly located in well, removed in 2023. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	5.8	7.31	1.51	0	
2/7/2024	7.25	7.3	0.05	0	
3/11/2024	4.75	5.99	1.24	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	9.7	9.71	0.01	0	
1/12/2024	9.11	9.12	0.01	0	
1/18/2024	9.55	9.56	0.01	0	
1/24/2024	9.95	9.96	0.01	0	
2/2/2024	9.15	9.16	0.01	0	
2/7/2024	9.82	9.83	0.01	0	
2/8/2024	8.52	8.53	0.01	0	
2/12/2024	10.08	10.09	0.01	0	
2/23/2024	9.99	10	0.01	0	
3/1/2024	10.18	10.19	0.01	0	
3/7/2024	10.02	10.03	0.01	0	
3/11/2024	8.72	8.73	0.01	0	
3/21/2024	9.99	10	0.01	0	
3/26/2024	9.79	9.8	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	13	13.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	9.25	9.26	0.01	0	
1/12/2024	8.62	8.63	0.01	0	
1/18/2024	8.91	8.92	0.01	0	
1/24/2024	9.42	9.43	0.01	0	
2/2/2024	8.76	8.77	0.01	0	
2/7/2024	9.25	9.26	0.01	0	
2/8/2024	8.43	8.44	0.01	0	
2/12/2024	9.48	9.49	0.01	0	
2/23/2024	9.4	9.41	0.01	0	
3/1/2024	9.62	9.63	0.01	0	
3/7/2024	9.45	9.46	0.01	0	
3/11/2024	-	8.31	0	0	
3/21/2024	-	9.35	0	0	
3/26/2024	-	9.22	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	11.92	12.09	0.17	0	
1/12/2024	11.43	11.56	0.13	0	
1/18/2024	11.75	11.76	0.01	0	
1/24/2024	12.08	12.11	0.03	0	
2/2/2024	11.55	11.61	0.06	0	
2/7/2024	12	12.26	0.26	0	
2/12/2024	12.16	12.5	0.34	0	
2/23/2024	12.1	12.45	0.35	0	
3/1/2024	12.31	12.54	0.23	0	
3/7/2024	12.02	12.25	0.23	0	
3/11/2024	11.12	11.45	0.33	0	
3/21/2024	12.02	12.36	0.34	0	
3/26/2024	11.95	12.32	0.37	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	8.66	8.89	0.23	0	
1/12/2024	8.21	8.29	0.08	0	
1/18/2024	8.42	8.48	0.06	0	
1/24/2024	8.86	8.99	0.13	0	
2/2/2024	8.17	8.28	0.11	0	
2/7/2024	8.69	8.89	0.2	0	
2/8/2024	8.02	8.4	0.38	0	
2/12/2024	9.01	9.19	0.18	0	
2/23/2024	8.88	9	0.12	0	
3/1/2024	9.13	9.21	0.08	0	
3/7/2024	9	9.15	0.15	0	
3/11/2024	7.8	7.94	0.14	0	
3/21/2024	8.8	8.95	0.15	0	
3/26/2024	8.71	8.84	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	12.71	12.91	0.2	0	
1/12/2024	12.12	12.28	0.16	0	
1/18/2024	12.34	12.52	0.18	0	
1/24/2024	13.01	13.12	0.11	0	
2/2/2024	12.1	12.3	0.2	0	
2/7/2024	12.8	13.01	0.21	0	
2/12/2024	13.08	13.41	0.33	0	
2/23/2024	13	13.31	0.31	0	
3/1/2024	13.25	13.47	0.22	0	
3/7/2024	13.11	13.3	0.19	0	
3/11/2024	11.85	12	0.15	0	
3/21/2024	12.85	13.01	0.16	0	
3/26/2024	12.66	12.8	0.14	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	8.85	10.05	1.2	0.75	
1/12/2024	8.38	8.61	0.23	0	
1/18/2024	8.63	9.1	0.47	0	
1/24/2024	8.59	9.08	0.49	0	
2/2/2024	8.45	8.91	0.46	0	
2/7/2024	8.96	10.25	1.29	0	
2/12/2024	9.22	10.11	0.89	0.63	
2/23/2024	9.02	9.1	0.08	0	
3/1/2024	9.38	9.72	0.34	0	
3/7/2024	9.15	9.55	0.4	0	
3/11/2024	8.12	8.55	0.43	0	
3/21/2024	8.91	9.31	0.4	0	
3/26/2024	8.8	9.19	0.39	0	

Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	11.41	11.75	0.34	0	
1/12/2024	11.01	11.17	0.16	0	
1/18/2024	11.25	11.61	0.36	0	
1/24/2024	11.59	11.98	0.39	0	
2/2/2024	11.01	11.61	0.6	0	
2/7/2024	11.35	12.75	1.4	0	
2/12/2024	11.67	12.74	1.07	0.69	
2/23/2024	11.55	11.6	0.05	0	
3/1/2024	11.85	12.28	0.43	0	
3/7/2024	10.85	11.2	0.35	0	
3/11/2024	10.7	11.11	0.41	0	
3/21/2024	16.41	16.82	0.41	0	
3/26/2024	11.22	11.61	0.39	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	11.23	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	12.4	12.6	0.2	0	
2/7/2024	12.45	12.64	0.19	0	
3/11/2024	11.73	11.74	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	11.85	12.41	0.56	0	
2/7/2024	11.92	12.3	0.38	0	
3/11/2024	11.6	11.81	0.21	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	4.61	5.05	0.44	0	
1/12/2024	3.78	3.95	0.17	0	
1/18/2024	4.3	4.99	0.69	0	
1/24/2024	5.45	5.76	0.31	0	
2/2/2024	5.31	5.69	0.38	0	
2/7/2024	4.89	5.32	0.43	0	
2/12/2024	5.25	5.85	0.6	0	
2/23/2024	5.1	5.72	0.62	0	
3/1/2024	5.06	5.58	0.52	0	
3/7/2024	3.55	4.1	0.55	0	
3/11/2024	3.42	4.02	0.6	0	
3/21/2024	3.57	3.98	0.41	0	
3/26/2024	3.5	3.9	0.4	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2024	13.49	13.5	0.01	0	drum 1.35
1/12/2024	13.11	13.12	0.01	0	drum 1.33
1/18/2024	13.41	13.42	0.01	0	drum 1.33
1/24/2024	13.61	13.62	0.01	0	drum 1.32
2/2/2024	13.15	13.19	0.04	0	drum 1.35
2/7/2024	13.49	13.89	0.4	0	drum 1.28
2/12/2024	13.73	13.83	0.1	0	
2/23/2024	13.68	13.7	0.02	0	drum 1.34
3/1/2024	13.56	13.57	0.01	0	drum 1.52
3/7/2024	13.05	13.1	0.05	0	drum 1.57
3/11/2024	12.85	12.86	0.01	0	drum 1.57
3/21/2024	13.55	13.57	0.02	0	drum 1.56
3/26/2024	13.45	13.46	0.01	0	drum 1.57

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.65 ft and equal to approximately 55 gallons. Comment on 12/27/2023 stated 'drum 1.32 ft'. Approximately 5.2 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	6.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	8.35	9.15	0.8	0.5	
1/12/2024	8.02	8.41	0.39	0	
1/18/2024	8.25	8.59	0.34	0	
1/24/2024	8.48	8.86	0.38	0	
2/2/2024	8.01	8.45	0.44	0	
2/7/2024	8.3	9.3	1	0	
2/12/2024	8.51	9.32	0.81	0.5	
2/23/2024	8.2	8.3	0.1	0	
3/1/2024	8.16	8.27	0.11	0	
3/7/2024	7.95	8.25	0.3	0	
3/11/2024	7.75	8.21	0.46	0	
3/21/2024	8.35	8.66	0.31	0	
3/26/2024	8	8.32	0.32	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	5.55	5.56	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	6.12	6.13	0.01	0	
2/7/2024	6.45	6.46	0.01	0	
3/11/2024	5.15	5.16	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	6.24	6.25	0.01	0	
2/7/2024	6.51	6.52	0.01	0	
3/11/2024	0	5.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	6.45	6.46	0.01	0	
2/7/2024	7.02	7.03	0.01	0	
3/11/2024	5.15	5.16	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	9.8	9.85	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/8/2024	-	10.92	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	0	7.55	0	0	
1/12/2024	6.63	6.64	0.01	0	
1/18/2024	6.91	6.92	0.01	0	
1/24/2024	7.04	7.05	0.01	0	
2/2/2024	0	6.75	0	0	
2/7/2024	0	7.25	0	0	
2/12/2024	0	7.51	0	0	
2/23/2024	0	7.32	0	0	
3/1/2024	0	7.28	0	0	
3/7/2024	0	6.56	0	0	
3/11/2024	0	6.34	0	0	
3/21/2024	0	7.3	0	0	
3/26/2024	0	7.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	7.25	7.85	0.6	0	
1/12/2024	6.42	6.84	0.42	0	
1/18/2024	6.71	7.59	0.88	0	
1/24/2024	6.61	7.21	0.6	0	
2/2/2024	6.35	7.01	0.66	0	
2/7/2024	6.66	7.42	0.76	0	
2/12/2024	7.22	8.3	1.08	0	
2/23/2024	6.88	7.95	1.07	0	
3/1/2024	6.88	7.89	1.01	0	
3/7/2024	6.32	7.12	0.8	0	
3/11/2024	6.11	7.21	1.1	0	
3/21/2024	7.01	8.26	1.25	0	
3/26/2024	6.88	8.21	1.33	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	0	6.95	0	0	
1/12/2024	0	6.16	0	0	
1/18/2024	0	6.60	0	0	
1/24/2024	0	6.75	0	0	
2/2/2024	0	6.42	0	0	
2/7/2024	0	6.88	0	0	
2/12/2024	0	7.00	0	0	
2/23/2024	0	6.90	0	0	
3/1/2024	0	6.87	0	0	
3/7/2024	0	6.05	0	0	
3/11/2024	0	5.60	0	0	
3/21/2024	0	6.95	0	0	
3/26/2024	0	6.74	0	0	

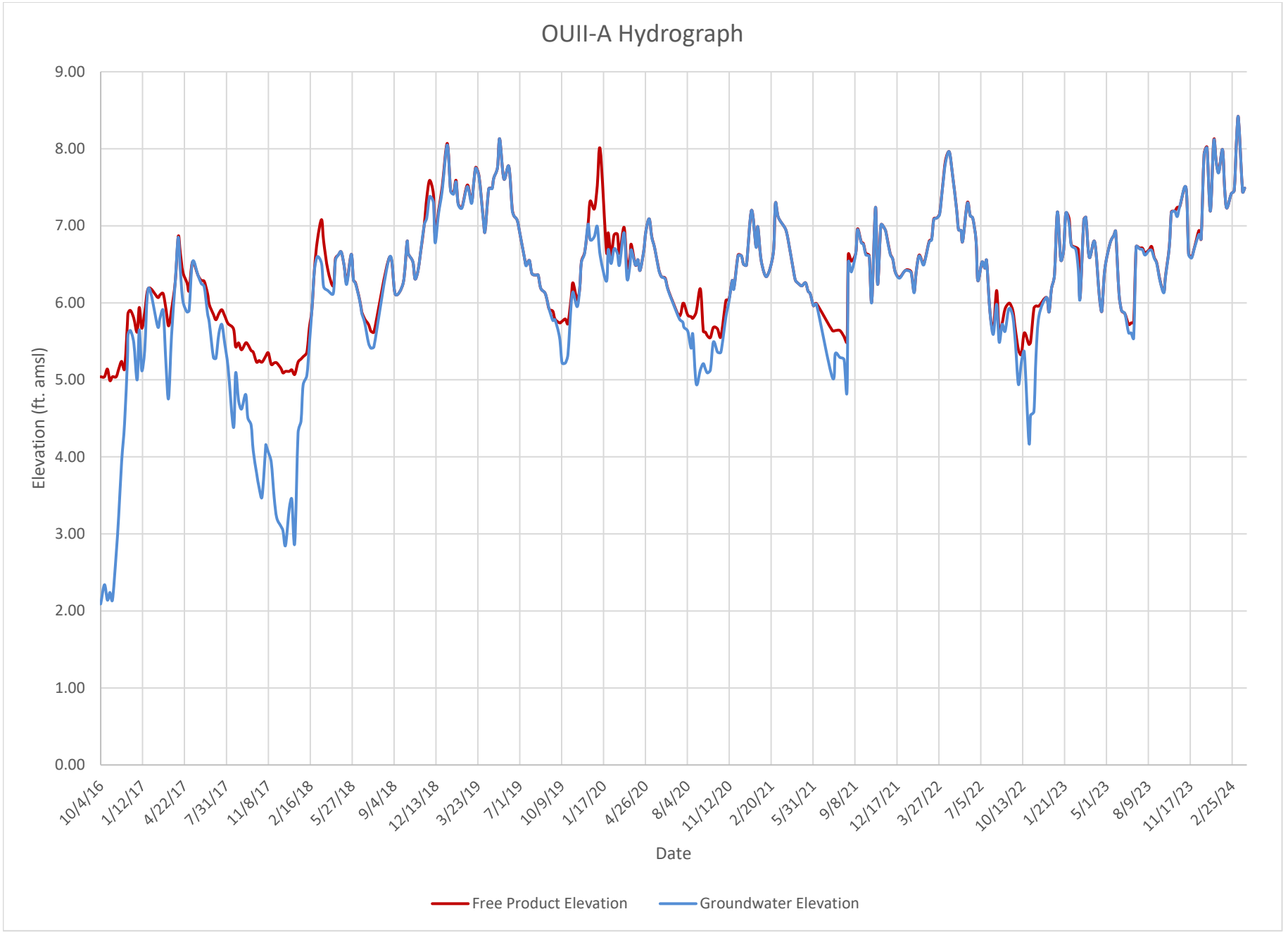
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	7.2	9.69	2.49	0	
1/12/2024	6.98	8.76	1.78	0	
1/18/2024	6.81	8.71	1.9	0	
1/24/2024	6.85	8.96	2.11	0	
2/2/2024	6.55	8.23	1.68	0	
2/7/2024	6.91	8.55	1.64	0	
2/12/2024	7.31	10.05	2.74	0	
2/23/2024	7.22	10	2.78	0	
3/1/2024	7.33	9.66	2.33	0	
3/7/2024	6.5	9.11	2.61	0	
3/11/2024	6.32	9.98	3.66	0	
3/21/2024	7.11	9.89	2.78	0	
3/26/2024	7	9.75	2.75	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	0	7.95	0	0	
1/12/2024	0	7.12	0	0	
1/18/2024	0	7.49	0	0	
1/24/2024	0	7.03	0	0	
2/2/2024	0	7.29	0	0	
2/7/2024	0	7.88	0	0	
2/12/2024	7.85	7.86	0.01	0	
2/23/2024	7.88	7.89	0.01	0	
3/1/2024	7.84	7.85	0.01	0	
3/7/2024	0	7.02	0	0	
3/11/2024	0	6.99	0	0	
3/21/2024	0	7.62	0	0	
3/26/2024	0	7.5	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2024	0	4.25	0	0	
1/12/2024	0	3.08	0	0	
1/18/2024	0	3.75	0	0	
1/24/2024	0	3.48	0	0	
2/2/2024	0	3.3	0	0	
2/7/2024	0	3.62	0	0	
2/12/2024	4.29	4.3	0.01	0	
2/23/2024	4.02	4.03	0.01	0	
3/1/2024	3.98	3.99	0.01	0	
3/7/2024	0	2.61	0	0	
3/11/2024	0	2.72	0	0	
3/21/2024	0	4.4	0	0	
3/26/2024	0	4	0	0	

ATTACHMENT B

Off-Site Monitoring Well Hydrographs


OUII-A Hydrograph
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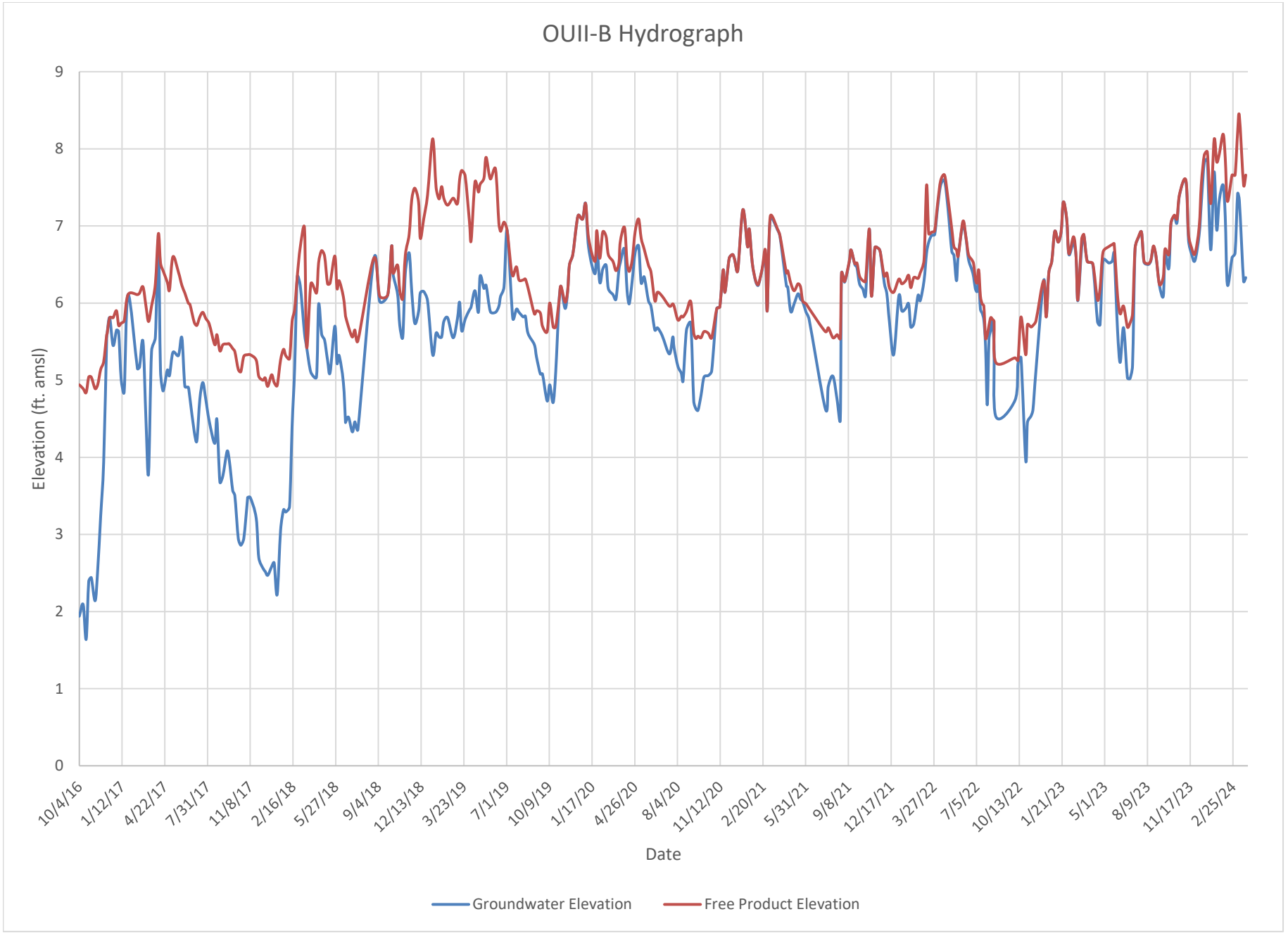
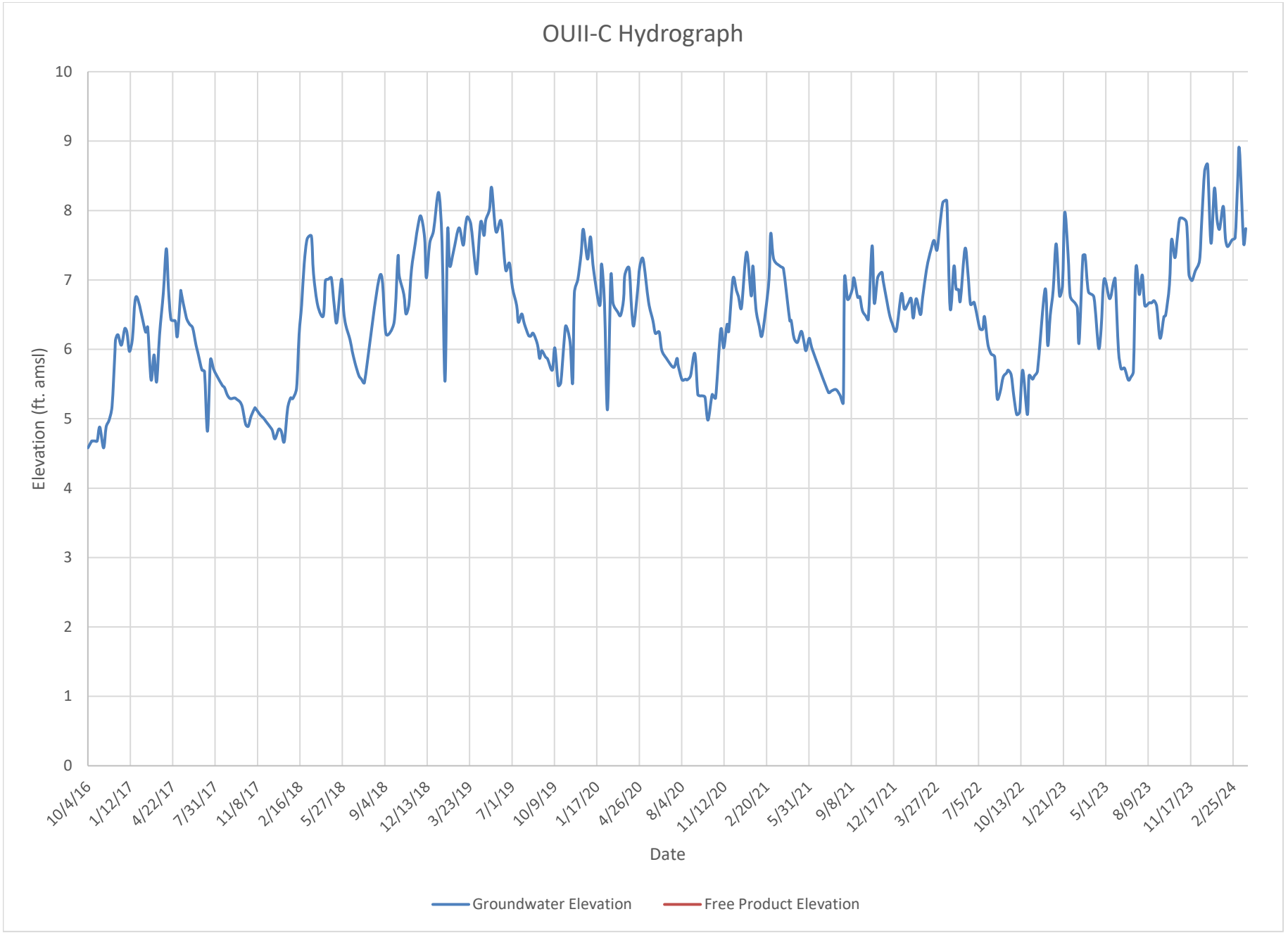
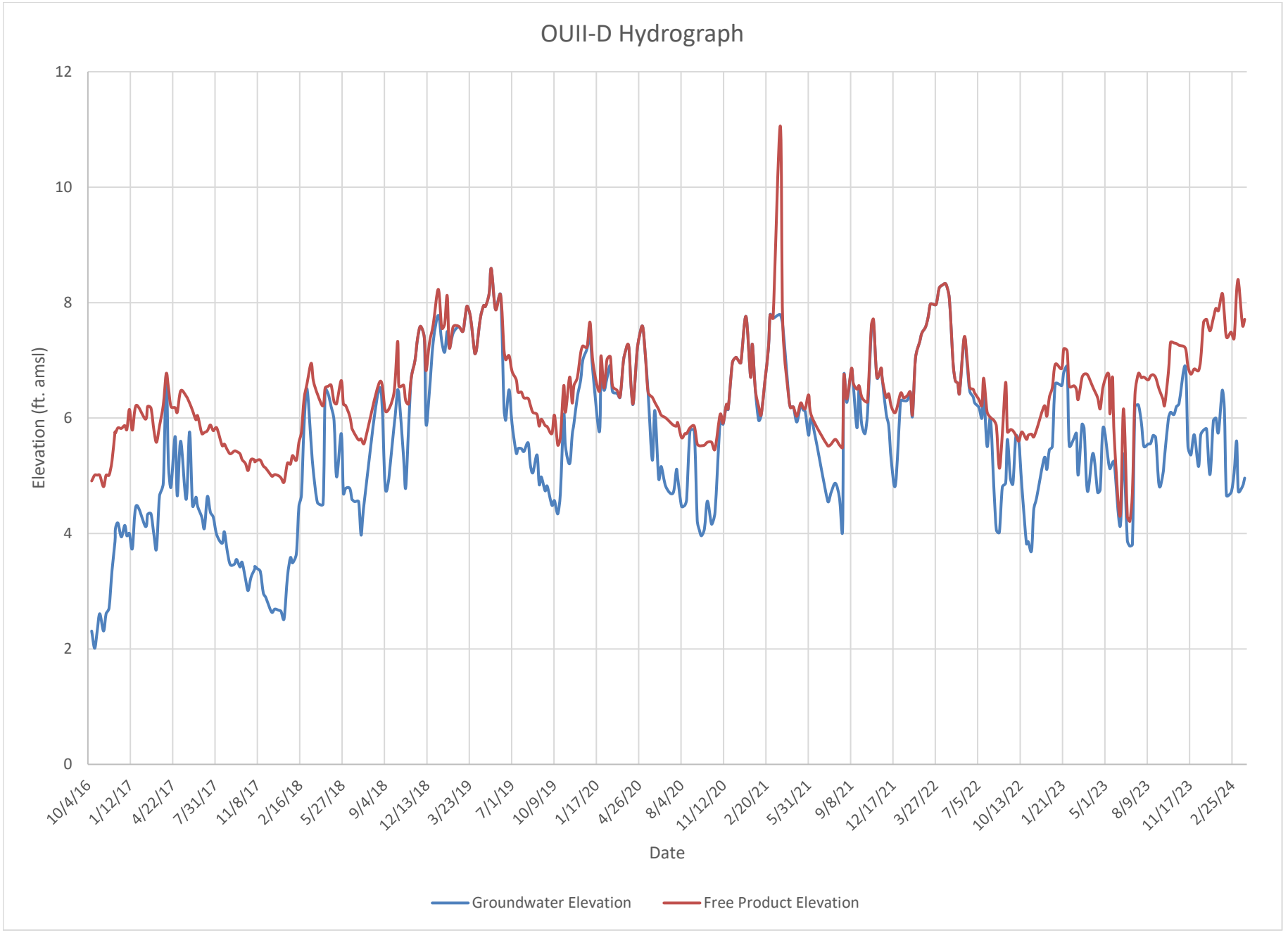
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
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10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
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11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
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9/8/21
12/17/21
3/27/22
7/5/22
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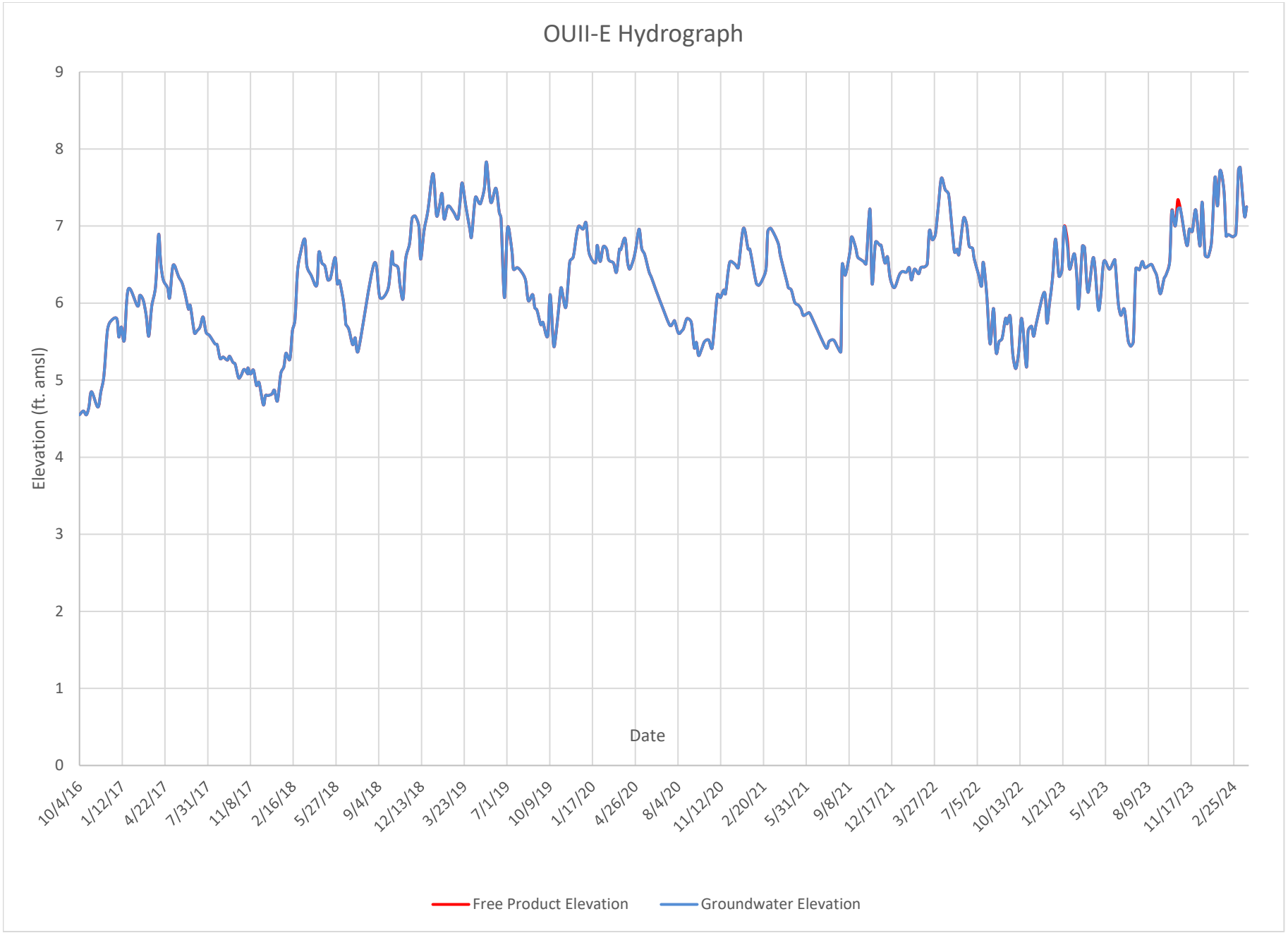
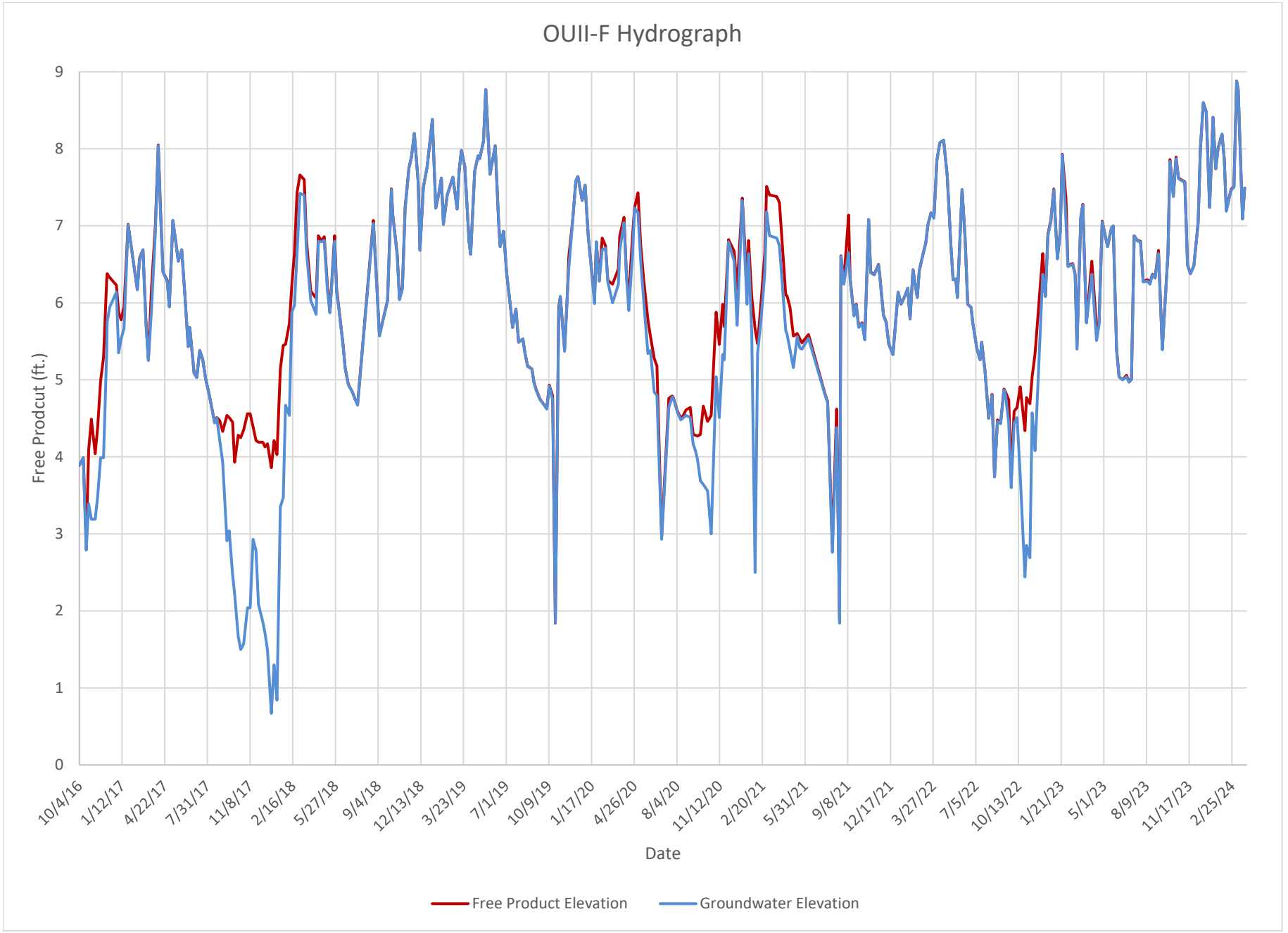
2/25/24
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
Date
Free Product Elevation
Groundwater Elevation

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: APRIL 1, 2024 THROUGH JUNE 30, 2024

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between April 1, 2024 and June 30, 2024 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

A conference call was conducted with representatives from the New York State Department of Environmental Conservation (NYSDEC), TRC Engineering (TRC), Metro North Railroad (MNR), and Day Engineering, P.C. (DAY) on May 2, 2024. Based on discussions during this conference call, a work plan describing the activities proposed to evaluate Light Non-Aqueous Phase Liquid (LNAPL) at, and in the vicinity of, Harmon Yard OU-II L4 area was prepared and emailed to the NYSDEC on June 21, 2024. [Note: On May 31, 2024, MNR contacted the adjacent property owners (i.e., Village of Harmon-on-Croton and Westchester County), and provided a description of the proposed work to be completed on these adjacent properties and requested access to complete this work. The Village of Harmon-on-Croton requested that MNR complete an access agreement. This access agreement was prepared and sent the Village of Harmon-on-Croton on June 12, 2024. Westchester County requested a directive from the NYSDEC, which has been requested from the NYSDEC from MNR. At this time the directive for Westchester County has not been received.]

In addition to the work plan, a document describing historic conditions within the OU-II NAPL L1 area and impacts on the adjacent Half Moon Bay property was also submitted to the NYSDEC.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on May 8, 2024 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and March 31, 2024) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between April 1, 2024 and June 30, 2024), and the preceding report period (i.e., between January 1, 2024 and March 31, 2024) is included as Figure 2.

During the report period, wells RW-1 and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ system was formerly located in well FA4-8; however, this system is no longer functional. The Spill Buster™ and Spill Buddy™ systems were purchased from Clean Earth Technology. Reportedly, Spill Buster™ and Spill Buddy™ systems are no longer available for purchase or repair.]

- Free product was not removed from well AI2-3 during the current report period or the previous report period (i.e., January 1, 2024 to March 31, 2024). During the current report period, 38.0 gallons of free product were removed from well RW-1 compared to 5.2 gallons in the previous report period. In a similar calendar period (i.e., between April 1, 2024 to June 30, 2024) approximately 15.6 gallons of free product was removed from well AI2-3 and 54.4 gallons of free product was removed from well RW-1. [Note: As of July 2, 2024, the Spill Buster™ in wells RW-1 and AI2-3 are no longer functional. These Spill Busters™ cannot be repaired.]

- A total of approximately 46.5 gallons of free product was removed from wells FA4-8, FA4-17, FA4-18, and RW-1 during the current report period. Free product was only removed from wells in the NAPL Area L4. The total amount of free product removed in the previous reporting period (i.e., between January 1, 2024 to March 31, 2014) was approximately 3.07 gallons (i.e., removed from wells FA4-17, FA4-18, and VE4-5). In a similar calendar period (i.e., between April 1, 2024 to June 30, 2024) 62.81 gallons were removed (i.e., removed from wells VE1-1, AI2-3, FA4-14, FA4-15, FA4-17, FA4-18, RW-1, and VE4-5). Since January 1, 2013, approximately 5,189 gallons of free product or approximately 110 gallons per reporting period (i.e., every three months) have been removed from the Site.

The free product removed is placed in a 55-gallon drum, which is stored in a waste accumulation area. Samples were not collected for testing in the current report period. Drums were not removed from the Site for disposal in the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);

- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

Note: The next groundwater sampling event is scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples collected from monitoring wells VE1-4, VE2-1, and VE4-11 will also be tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.

Laboratory packages will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-B, OUII-D, and OUII-E, ranging in thickness between 0.01 ft. (monitoring well OUII-E) and 2.63. (monitoring well MW-D). Free product was not recovered from the off-site monitoring wells during the report period.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. As shown on Figure 3, the thickness of free product measured in monitoring well OUII-B and OUII-D has increased compared to previous report periods. The thicknesses of free product measured in the off-site monitoring wells OUII-A, OUII-E, and OUII-F during this period are comparable or higher to the thicknesses measured in previous report periods during a similar timeframe (i.e., June through April).

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment B.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). Free product was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North

subsequent to the March 20, 2020 monitoring event, and free product has not previously been detected in well WB-9 or subsequent to the detection reported on November 13, 2023). The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on April 19, 2024 by MNR. During this inspection, it was determined that repair of stick-up well AI 1-11 is required. Reportedly, the PVC was sheared at ground level.

A copy of the inspection report completed on April 19, 2024 is provided in Attachment C. The next bi-annual inspection is scheduled for October 2024.

EMERGENCY OU-I AND OU-II INSPECTION: Emergency inspections of OU-I and OU-II were not required during the current report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between July 1, 2024 and September 30, 2024), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1 and AI2-3 using the Spill Buster™ systems, or alternative methods if deemed necessary. Alternative measures will be required to remove free product from other wells if the Spill Buddy™ fails and can no longer collect free product. MNR is evaluating alternative options (e.g., dedicated auto bailers, peristaltic pump, etc.). The off-site monitoring wells will continue to be monitored on a weekly basis and free product removed if warranted. Note: During the upcoming report period, attempts will be made to remove free product from off-site wells OUII-B and OUII-D, and assess if the amount of free product returns following removal.

Note: Generally, if 0.5 ft. or more of free product is measured in on-site wells; it should be removed. If 1.0 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well AI 1-11 should be repaired and secured by having the PVC cut flush and a j-plug secured at the top of the PVC casing.

The next OU-I/OU-II inspection is due on or about October 31, 2024. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., July 1, 2024 through September 30, 2024) will be submitted in October 2024.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need

for additional remedial measures.

If comments are received from the NYSDEC on the LNAPL Evaluation Work Plan submitted on June 21, 2024 during the upcoming period, the document should be revised and work described will be initiated, as appropriate.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: April 1, 2024 through June 30, 2024
Table 2: Historic Free Product Removal Totals: December 1, 2012 through March 31, 2024
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: May 2024
Figure 2: Summary of Free Product Removal for the Report Periods April 1, 2024 – June 30, 2024 and January 1, 2024 – March 31, 2024
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: April 1, 2024 – June 30, 2024
Attachment B: Off-Site Monitoring Well Hydrographs
Attachment C: Site Inspection

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: April 1, 2024 through June 30, 2024

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	0
Total	**0**

OU II	
Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	0
VE2-1	0
Total	**0**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	0.75
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	0
FA4-15	0
FA4-16	0
FA4-17	1.25
FA4-18	5.5
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	38.0
VE4-1	0
VE4-5	1
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**46.50**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - March 31, 2024

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.56
Total	**197.055**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	26.79
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**36.782**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1086.43
VE2-1	0
Total	**1088.06**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	315.19
FA4-15	87.79
FA4-16	76.56
FA4-17	93.23
FA4-18	120.91
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1925.1
VE4-1	0
VE4-5	241.66
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3804.02**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006
January 1, 2024 - March 31, 2024	Depth to Static Water Level	6.34-7.55	6.84-8.30	5.60-7.00	8.23-10.05	6.99-7.95	2.61-4.40
	Range of Free Product Thickness (ft.)	0-0.01	0.42-1.33	0	1.64-3.66	0-0.01	0-0.01
	Average Free Product Thickness (ft.)	0.002	0.890	0	2.40	0.002	0.002
April 1, 2024 - June 30, 2024	Depth to Static Water Level	6.65-8.00	6.37-7.88	6.08-8.49	6.87-8.03	6.61-8.12	2.96-5.68
	Range of Free Product Thickness (ft.)	0	0.50-1.49	0	1.48-2.63	0-0.01	0
	Average Free Product Thickness (ft.)	0	0.850	0	1.94	0.001	0

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- AI1-12 (4.74 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 2024
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	07-2024
DATE DRAWN	07-2024
DATE ISSUED	07-24-2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: May 2024

Project No.
23-3690M

FIGURE 1

Document Path: E:\GIS Mapping\MNR\MNR GIS Server Data\MNR\Harmon Yard\OU1_OU2\Harmon OUII_OUII GW Mapping.aprx
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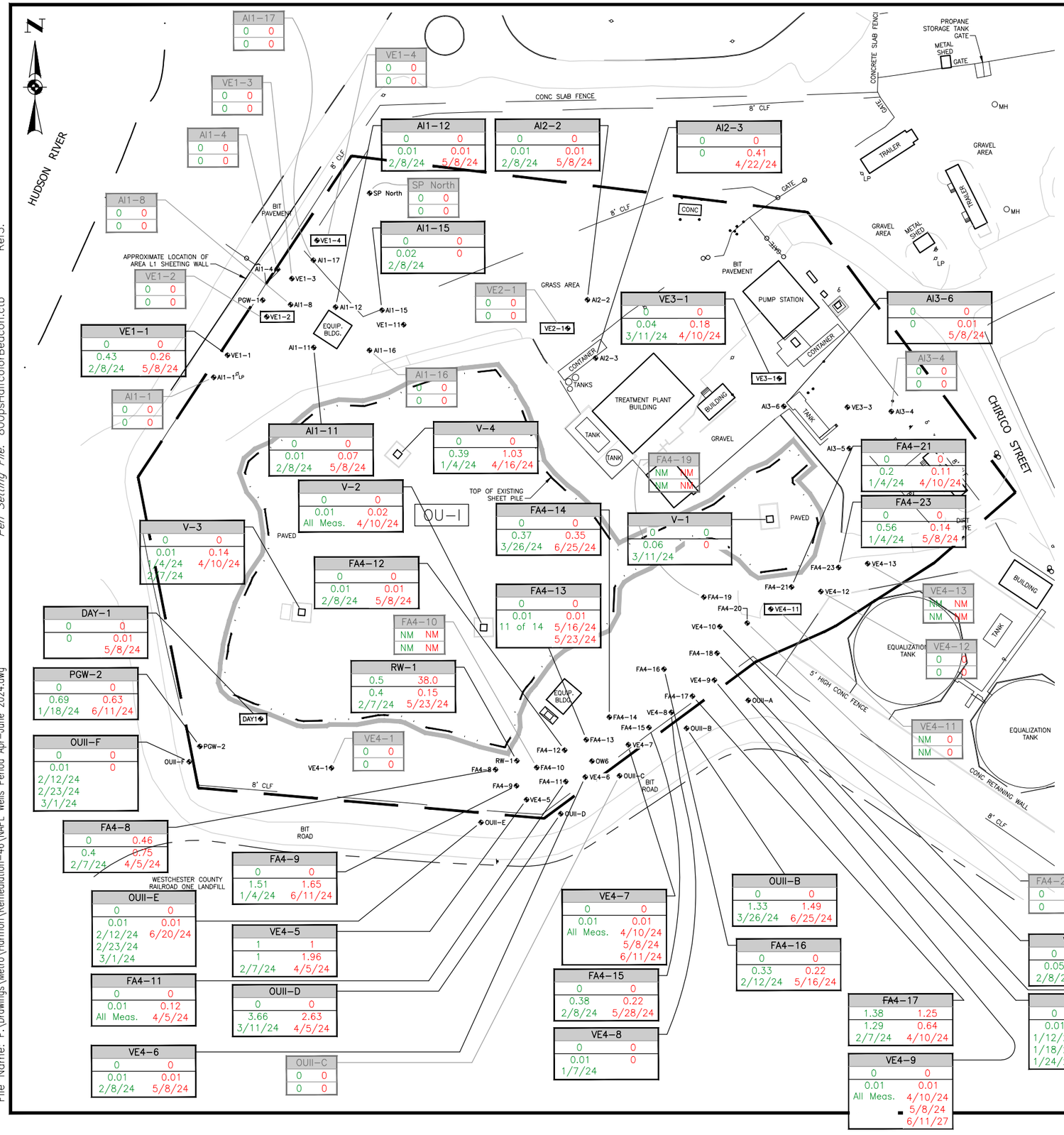


NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells
- FA4–14 (0 / 0.37 3/26/24 / 0.35 6/25/24) — Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period January 1, 2024 Through March 31, 2024 Shown In Green (Left)

Measurements Made During The Report Period April 1, 2024 Through June 30, 2024 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

SITE PLAN

1" = 80'

0' 80' 160' 240'

DATE	7/2024
PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
DATE DRAWN	7/23/2024
SCALE	As Noted
DATE ISSUED	7/23/2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
January - March 2024 and April - June 2024

PROJECT NO.
24-3717M

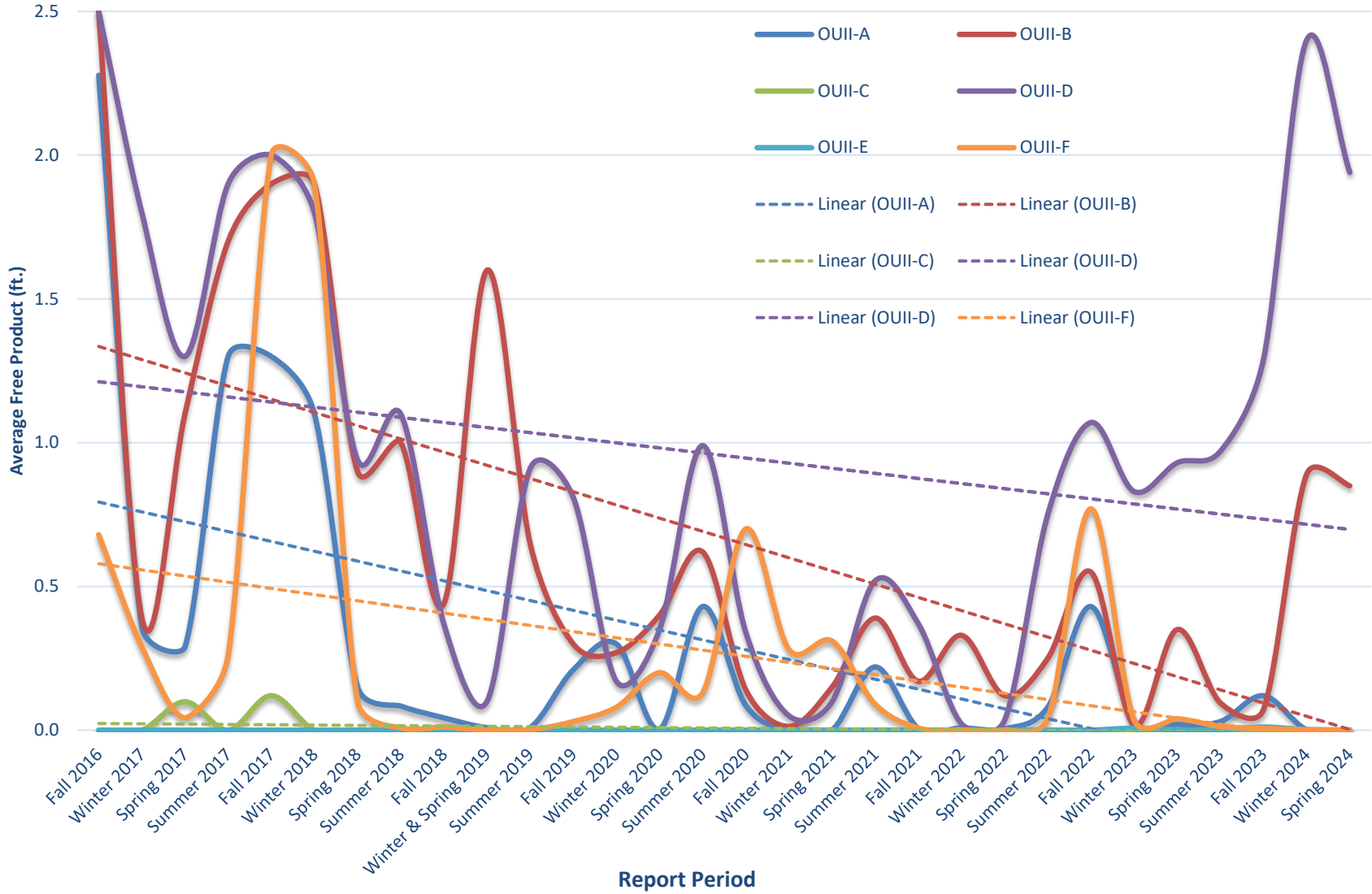
FIGURE 2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Tuesday, July 23, 2024 4:11:01 PM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Apr–June 2024.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
April 1, 2024 through June 30, 2024

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.29	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.49	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	13.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	7.11	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.04	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.51	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	-	14.97	0	0	
5/8/2024	-	15.25	0	0	
6/11/2024	-	15.64	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	15.59	15.61	0.02	0	
5/8/2024	16.28	16.29	0.01	0	
6/11/2024	16.72	16.73	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	15.19	15.33	0.14	0	
5/8/2024	16	16.11	0.11	0	
6/11/2024	16.4	16.45	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	14.51	14.54	0.03	0	
4/10/2024	14.41	14.49	0.08	0	
4/16/2024	14.48	15.51	1.03	0	
4/22/2024	14.68	14.92	0.24	0	
5/3/2024	15.02	15.28	0.26	0	
5/8/2024	15.11	15.42	0.31	0	
5/16/2024	14.05	14.38	0.33	0	
5/23/2024	15.32	15.72	0.40	0	
5/28/2024	15.40	15.75	0.35	0	
6/5/2024	15.55	15.84	0.29	0	
6/11/2024	15.61	15.92	0.31	0	
6/20/2024	15.65	15.89	0.24	0	
6/25/2024	15.91	16.28	0.37	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	10.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	9.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	12.94	13.01	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	16.18	16.19	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	17.75	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	13.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	11.19	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	7.69	0	0	
4/10/2024	-	7.95	0	0	
4/16/2024	-	8.08	0	0	
4/22/2024	-	8.20	0	0	
5/3/2024	-	8.01	0	0	
5/8/2024	-	8.56	0	0	
5/16/2024	-	8.53	0	0	
5/23/2024	-	8.76	0	0	
5/28/2024	-	8.71	0	0	
6/5/2024	-	8.93	0	0	
6/11/2024	-	8.85	0	0	
6/20/2024	-	8.83	0	0	
6/25/2024	-	9.28	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	7.75	8.01	0.26	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	8.54	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	7.74	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	9.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	8.04	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	14.22	14.23	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/5/2024	13.81	13.82	0.01	0	drum 0.69
4/10/2024	13.88	13.92	0.04	0	drum 0.75
4/16/2024	13.95	14.06	0.11	0	drum 0.75
4/22/2024	14.11	14.52	0.41	0	drum 0.74
5/3/2024	14.35	14.69	0.34	0	drum 0.78
5/8/2024	14.58	14.81	0.23	0	drum 0.75
5/16/2024	14.68	14.91	0.23	0	drum 0.75
5/23/2024	14.65	14.98	0.33	0	drum 0.78
5/28/2024	14.75	15.16	0.41	0	drum 0.82
6/5/2024	14.61	15.00	0.39	0	drum 0.78
6/11/2024	14.89	15.2	0.31	0	drum 0.78
6/20/2024	14.95	15.21	0.26	0	drum 0.78
6/25/2024	15.05	15.44	0.39	0	drum 0.78

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.65 ft and equal to approximately 55 gallons. Comment on 3/26/2024 stated '0.71 ft'. Free product not recovered during reporting period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	10.36	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	9.92	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	15.91	15.92	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	9.81	9.99	0.18	0	
5/8/2024	10.54	10.58	0.04	0	
6/11/2024	10.71	10.73	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	15.08	15.09	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/5/2024	12.52	12.98	0.46	0.75	
4/10/2024	13.88	13.89	0.01	0	
4/16/2024	13.78	13.79	0.01	0	
4/22/2024	14.52	14.53	0.01	0	
5/3/2024	15.21	15.23	0.02	0	
5/8/2024	15.46	15.47	0.01	0	
5/16/2024	15.39	15.44	0.05	0	
5/23/2024	15.78	15.79	0.01	0	
5/28/2024	15.78	15.79	0.01	0	
6/5/2024	15.87	15.88	0.01	0	
6/11/2024	16.01	16.02	0.01	0	
6/20/2024	16.08	16.09	0.01	0	
6/25/2024	16.25	16.26	0.01	0	

Spill Buster™formerly located in well, removed in 2023. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	5.31	5.79	0.48	0	
5/8/2024	6.42	6.81	0.39	0	
6/11/2024	7.23	8.88	1.65	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	8.49	8.61	0.12	0	
4/10/2024	9.48	9.49	0.01	0	
4/16/2024	9.48	9.49	0.01	0	
4/22/2024	9.95	9.96	0.01	0	
5/3/2024	10.18	10.19	0.01	0	
5/8/2024	10.35	10.36	0.01	0	
5/16/2024	10.31	10.32	0.01	0	
5/23/2024	-	10.13	0	0	
5/28/2024	10.61	10.62	0.01	0	
6/5/2024	10.85	10.86	0.01	0	
6/11/2024	10.92	10.93	0.01	0	
6/20/2024	11.11	11.12	0.01	0	
6/25/2024	11.21	11.23	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	13.26	13.27	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	8.05	0	0	
4/10/2024	-	8.82	0	0	
4/16/2024	-	8.76	0	0	
4/22/2024	-	9.23	0	0	
5/3/2024	-	9.56	0	0	
5/8/2024	-	9.73	0	0	
5/16/2024	9.68	9.69	0.01	0	
5/23/2024	10.68	10.69	0.01	0	
5/28/2024	-	10.09	0	0	
6/5/2024	-	10.26	0	0	
6/11/2024	-	10.45	0	0	
6/20/2024	-	10.55	0	0	
6/25/2024	-	10.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	10.88	11.01	0.13	0	
4/10/2024	11.53	11.71	0.18	0	
4/16/2024	11.54	11.71	0.17	0	
4/22/2024	11.98	12.08	0.10	0	
5/3/2024	12.14	12.36	0.22	0	
5/8/2024	12.28	12.29	0.01	0	
5/16/2024	12.22	12.29	0.07	0	
5/23/2024	12.63	12.82	0.19	0	
5/28/2024	12.65	12.95	0.30	0	
6/5/2024	12.72	13.04	0.32	0	
6/11/2024	12.85	13.06	0.21	0	
6/20/2024	12.88	13.18	0.30	0	
6/25/2024	13.09	13.44	0.35	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	7.53	7.59	0.06	0	
4/10/2024	8.27	8.29	0.02	0	
4/16/2024	8.21	8.29	0.08	0	
4/22/2024	8.65	8.78	0.13	0	
5/3/2024	9.13	9.15	0.02	0	
5/8/2024	9.31	9.45	0.14	0	
5/16/2024	9.28	9.32	0.04	0	
5/23/2024	9.56	9.57	0.01	0	
5/28/2024	9.62	9.84	0.22	0	
6/5/2024	9.75	9.76	0.01	0	
6/11/2024	9.83	9.98	0.15	0	
6/20/2024	9.96	9.99	0.03	0	
6/25/2024	10.02	10.08	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	11.54	11.73	0.19	0	
4/10/2024	12.11	12.28	0.17	0	
4/16/2024	12.25	12.44	0.19	0	
4/22/2024	12.8	12.91	0.11	0	
5/3/2024	13.11	13.23	0.12	0	
5/8/2024	13.28	13.34	0.06	0	
5/16/2024	13.17	13.39	0.22	0	
5/23/2024	13.62	13.71	0.09	0	
5/28/2024	13.65	13.78	0.13	0	
6/5/2024	13.75	13.88	0.13	0	
6/11/2024	13.93	13.99	0.06	0	
6/20/2024	14.04	14.15	0.11	0	
6/25/2024	14.08	14.16	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	7.85	8.08	0.23	0	
4/10/2024	8.34	8.98	0.64	1.25	
4/16/2024	8.42	8.45	0.03	0	
4/22/2024	8.91	8.95	0.04	0	
5/3/2024	9.38	9.41	0.03	0	
5/8/2024	9.53	9.56	0.03	0	
5/16/2024	9.56	9.58	0.02	0	
5/23/2024	9.79	10.01	0.22	0	
5/28/2024	9.82	9.92	0.1	0	
6/5/2024	9.91	9.99	0.08	0	
6/11/2024	10.05	10.15	0.1	0	
6/20/2024	10.13	10.14	0.01	0	
6/25/2024	10.27	10.29	0.02	0	

Spill Buster™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	10.62	11.05	0.43	0	
4/10/2024	10.88	12.41	1.53	1.75	
4/16/2024	10.95	12.23	1.28	2	
4/22/2024	11.31	12.51	1.2	1.75	
5/3/2024	11.66	12.05	0.39	0	
5/8/2024	11.82	12.09	0.27	0	
5/16/2024	11.77	12.05	0.28	0	
5/23/2024	12.16	12.61	0.45	0	
5/28/2024	12.15	12.5	0.35	0	
6/5/2024	12.21	12.68	0.47	0	
6/11/2024	12.36	12.8	0.44	0	
6/20/2024	12.51	12.83	0.32	0	
6/25/2024	12.65	12.91	0.26	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	11.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	11.71	11.82	0.11	0	
5/8/2024	12.68	12.69	0.01	0	
6/11/2024	13.11	13.12	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	-	11.58	0	0	
5/8/2024	12.11	12.25	0.14	0	
6/11/2024	12.54	12.59	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	3.18	3.48	0.30	0	
4/10/2024	4.13	4.51	0.38	0	
4/16/2024	4.08	4.55	0.47	0	
4/22/2024	4.82	5.15	0.33	0	
5/3/2024	5.14	5.68	0.54	0	
5/8/2024	5.48	5.68	0.20	0	
5/16/2024	5.45	5.64	0.19	0	
5/23/2024	5.95	5.98	0.03	0	
5/28/2024	6.00	6.35	0.35	0	
6/5/2024	6.01	6.60	0.59	0	
6/11/2024	5.88	6.51	0.63	0	
6/20/2024	6.01	6.58	0.57	0	
6/25/2024	6.78	6.88	0.10	0	

Table 2

Harmon Railroad Yard
OU I and OU II
Westchester County, New York
Site No. 3-60-010

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/5/2024	12.75	12.76	0.01	0	drum 1.58 screen clogged and cleaned
4/10/2024	13.12	13.13	0.01	0	drum 1.72
4/16/2024	13.14	13.15	0.01	0	drum 2.08
4/22/2024	13.51	13.52	0.01	0	
5/3/2024	13.62	13.65	0.03	0	drum 1.92
5/8/2024	13.61	13.65	0.04	0	drum 2.02
5/16/2024	13.55	13.57	0.02	0	drum 2.21
5/23/2024	14.00	14.15	0.15	0	drum 2.31
5/28/2024	14.09	14.10	0.01	0	drum 0.14
6/5/2024	14.11	14.22	0.11	0	drum 0.28
6/11/2024	14.27	14.28	0.01	0	drum 0.42
6/20/2024	14.37	14.38	0.01	0	drum 0.68
6/25/2024	14.45	14.46	0.01	0	drum 0.75

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.65 ft and equal to approximately 55 gallons. Comment on 3/26/2024 stated 'drum 1.57 ft'. Approximately 38.0 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	6.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	7.46	9.42	1.96	1	
4/10/2024	7.63	7.64	0.01	0	
4/16/2024	8.11	8.16	0.05	0	
4/22/2024	8.38	8.42	0.04	0	
5/3/2024	8.61	8.65	0.04	0	
5/8/2024	8.66	8.89	0.23	0	
5/16/2024	8.64	8.98	0.34	0	
5/23/2024	8.98	9.12	0.14	0	
5/28/2024	9.00	9.42	0.42	0	
6/5/2024	8.94	9.25	0.31	0	
6/11/2024	9.15	9.49	0.34	0	
6/20/2024	9.08	9.5	0.42	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	6.53	6.54	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	5.75	5.76	0.01	0	
5/8/2024	6.72	6.73	0.01	0	
6/11/2024	7.25	7.26	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	-	5.87	0	0	
5/8/2024	-	6.91	0	0	
6/11/2024	-	7.55	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/10/2024	5.84	5.85	0.01	0	
5/8/2024	7.41	7.42	0.01	0	
6/11/2024	7.85	7.86	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	11.25	11.26	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.92	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	12.9	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	6.65	0	0	
4/10/2024	-	6.76	0	0	
4/16/2024	-	6.77	0	0	
4/22/2024	-	7.15	0	0	
5/3/2024	-	7.61	0	0	
5/8/2024	-	7.65	0	0	
5/16/2024	-	8.00	0	0	
5/23/2024	-	7.95	0	0	
5/28/2024	-	8.05	0	0	
6/5/2024	-	7.96	0	0	
6/11/2024	-	7.85	0	0	
6/20/2024	-	7.88	0	0	
6/25/2024	-	7.81	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	6.21	7.29	1.08	0	
4/10/2024	6.31	7.33	1.02	0	
4/16/2024	6.48	7.01	0.53	0	
4/22/2024	6.85	7.65	0.8	0	
5/3/2024	7.01	7.69	0.68	0	
5/8/2024	7.21	7.71	0.5	0	
5/16/2024	7.71	8.75	1.04	0	
5/23/2024	7.55	8.11	0.56	0	
5/28/2024	7.60	8.51	0.91	0	
6/5/2024	7.65	8.4	0.75	0	
6/11/2024	7.71	8.52	0.81	0	
6/20/2024	7.76	8.59	0.83	0	
6/25/2024	7.00	8.49	1.49	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	6.41	0	0	
4/10/2024	-	6.12	0	0	
4/16/2024	-	6.08	0	0	
4/22/2024	-	6.85	0	0	
5/3/2024	-	6.89	0	0	
5/8/2024	-	7.08	0	0	
5/16/2024	-	7.89	0	0	
5/23/2024	-	7.39	0	0	
5/28/2024	-	7.80	0	0	
6/5/2024	-	8.00	0	0	
6/11/2024	-	8.00	0	0	
6/20/2024	-	8.02	0	0	
6/25/2024	-	7.95	0	0	

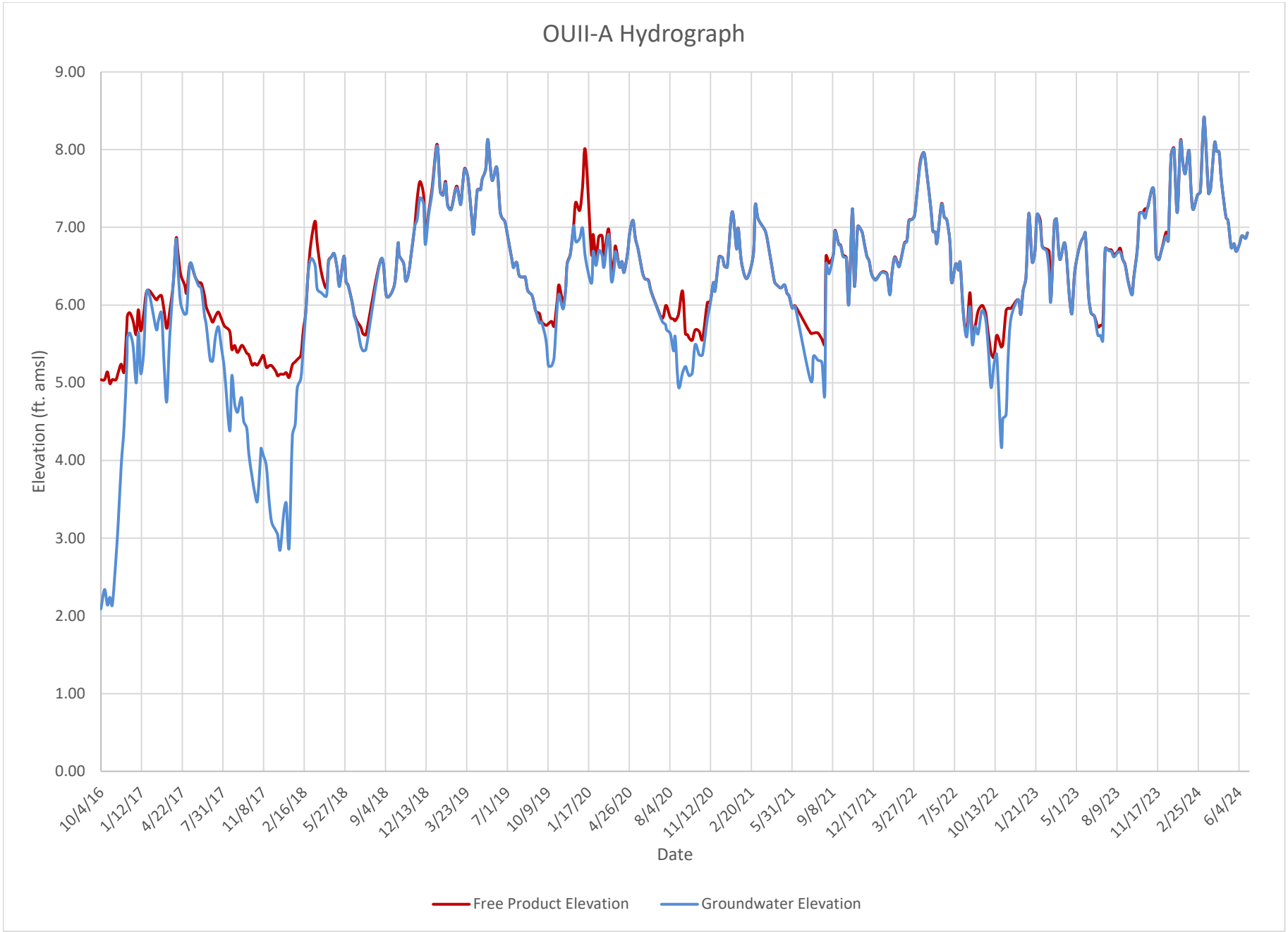
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	6.48	9.11	2.63	0	
4/10/2024	6.51	9.06	2.55	0	
4/16/2024	6.52	9.04	2.52	0	
4/22/2024	6.94	9.15	2.21	0	
5/3/2024	7.16	9.41	2.25	0	
5/8/2024	7.28	9.01	1.73	0	
5/16/2024	7.61	9.4	1.79	0	
5/23/2024	7.72	9.43	1.71	0	
5/28/2024	7.75	9.5	1.75	0	
6/5/2024	7.80	9.31	1.51	0	
6/11/2024	7.70	9.25	1.55	0	
6/20/2024	7.72	9.32	1.6	0	
6/25/2024	7.71	9.19	1.48	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	6.68	0	0	
4/10/2024	-	6.68	0	0	
4/16/2024	-	6.61	0	0	
4/22/2024	-	7.46	0	0	
5/3/2024	-	7.31	0	0	
5/8/2024	-	7.45	0	0	
5/16/2024	-	7.96	0	0	
5/23/2024	-	8.12	0	0	
5/28/2024	-	8.15	0	0	
6/5/2024	-	8.09	0	0	
6/11/2024	-	8	0	0	
6/20/2024	8.01	8.02	0.01	0	
6/25/2024	-	7.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/5/2024	-	2.96	0	0	
4/10/2024	-	3.12	0	0	
4/16/2024	-	3.05	0	0	
4/22/2024	-	3.84	0	0	
5/3/2024	-	4.18	0	0	
5/8/2024	-	4.52	0	0	
5/16/2024	-	5	0	0	
5/23/2024	-	4.95	0	0	
5/28/2024	-	4.95	0	0	
6/5/2024	-	5.21	0	0	
6/11/2024	-	5.65	0	0	
6/20/2024	-	5.68	0	0	
6/25/2024	-	5.59	0	0	

ATTACHMENT B

Off-Site Monitoring Well Hydrographs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8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
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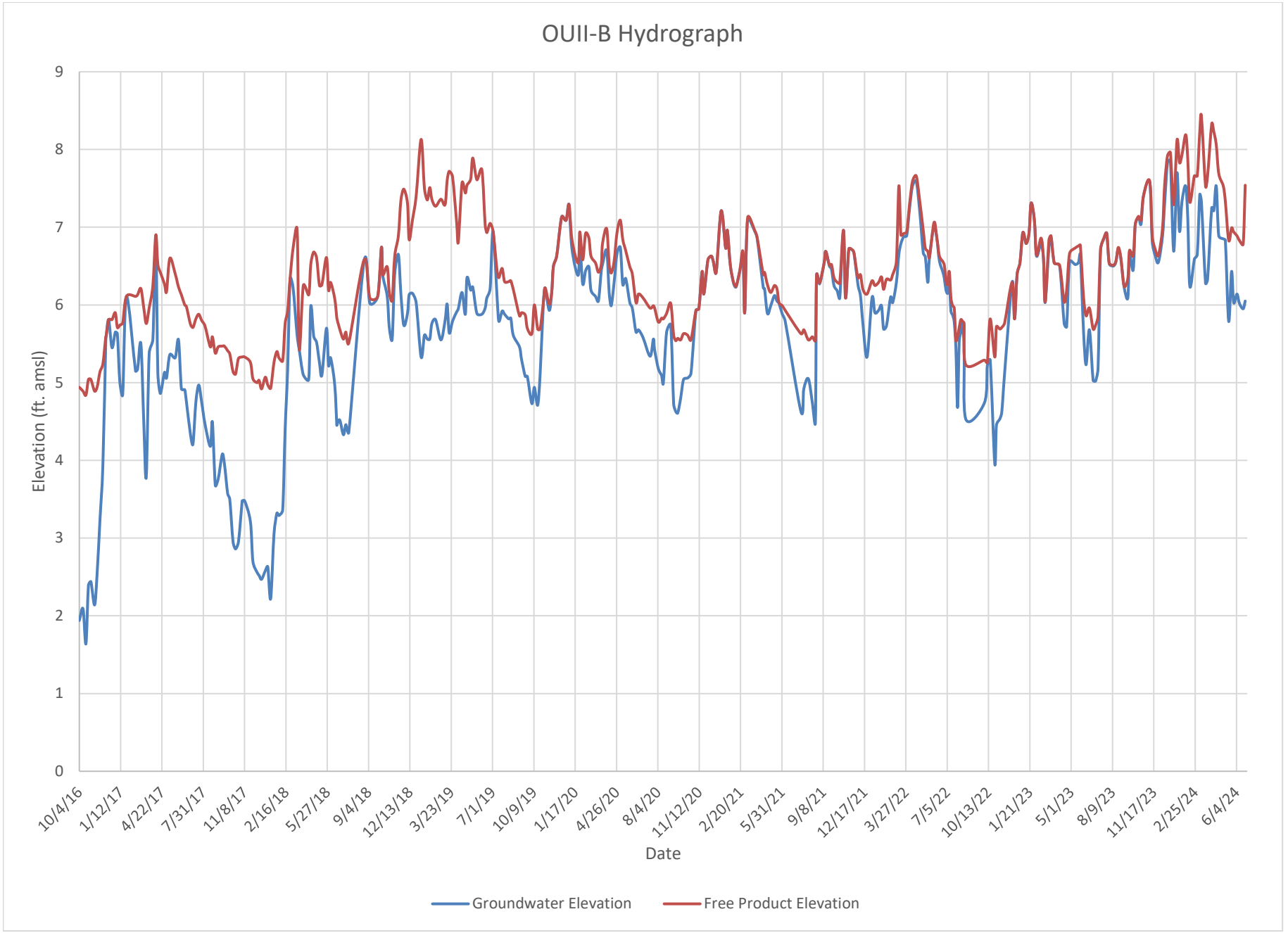
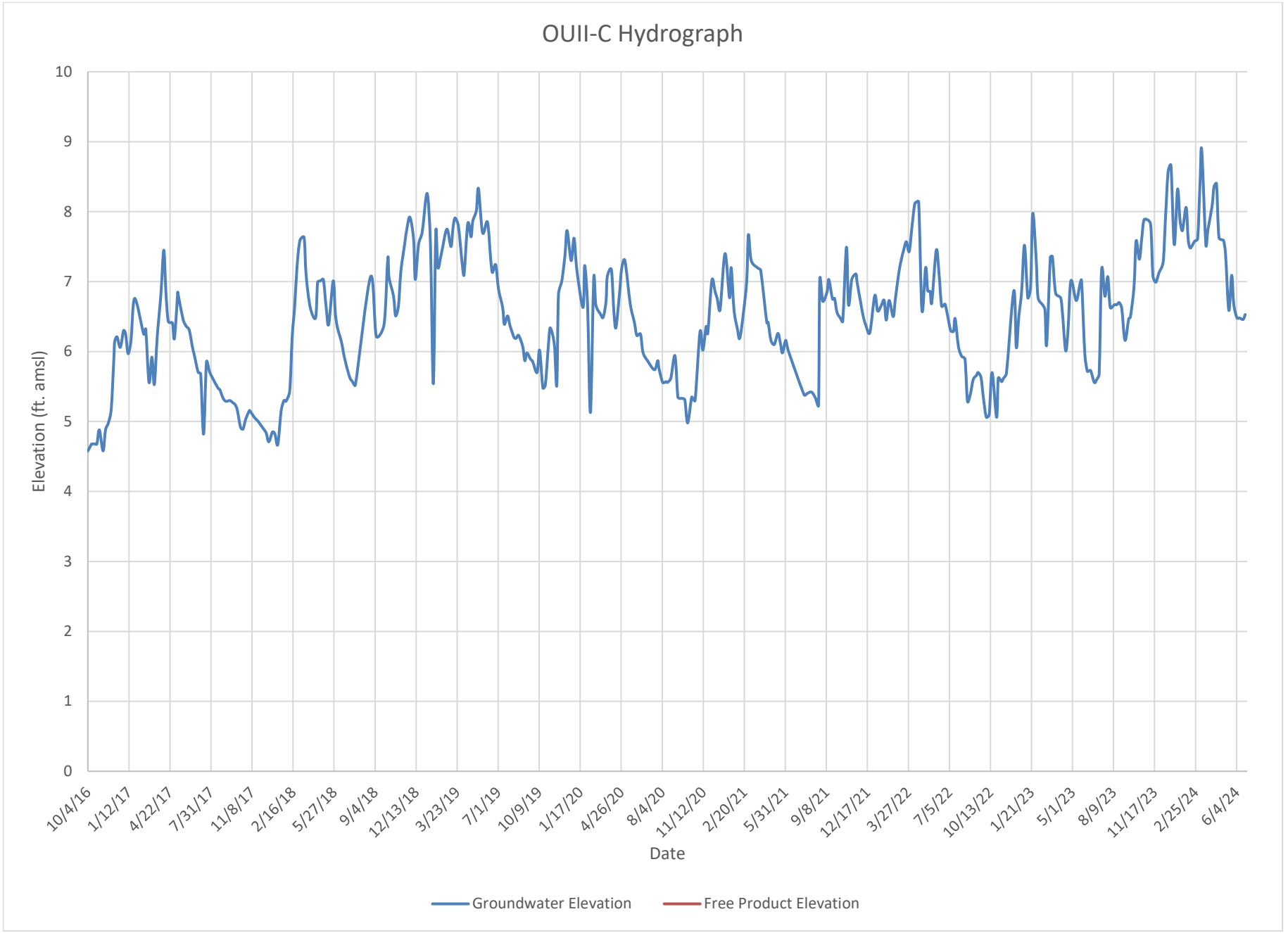
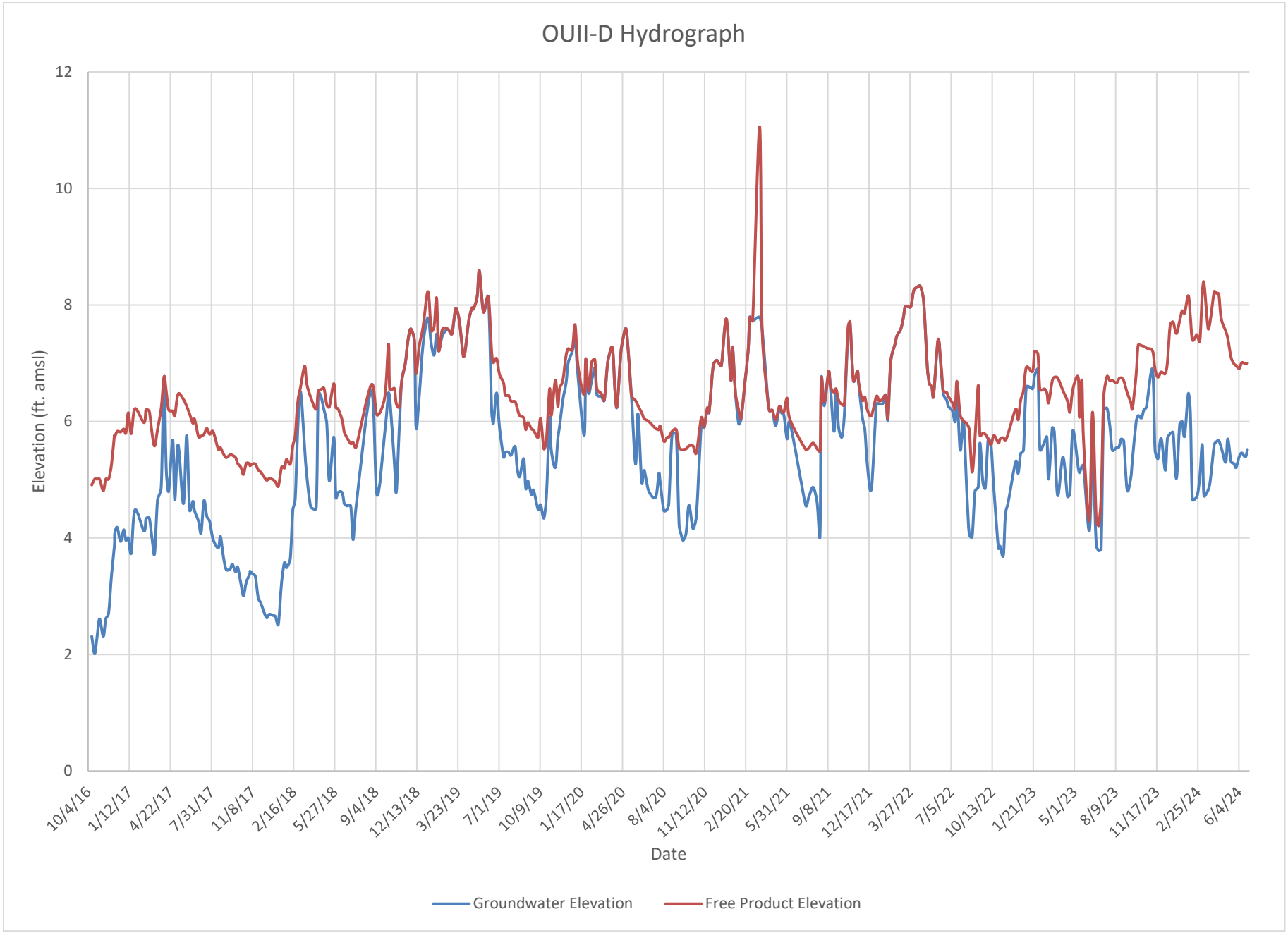
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
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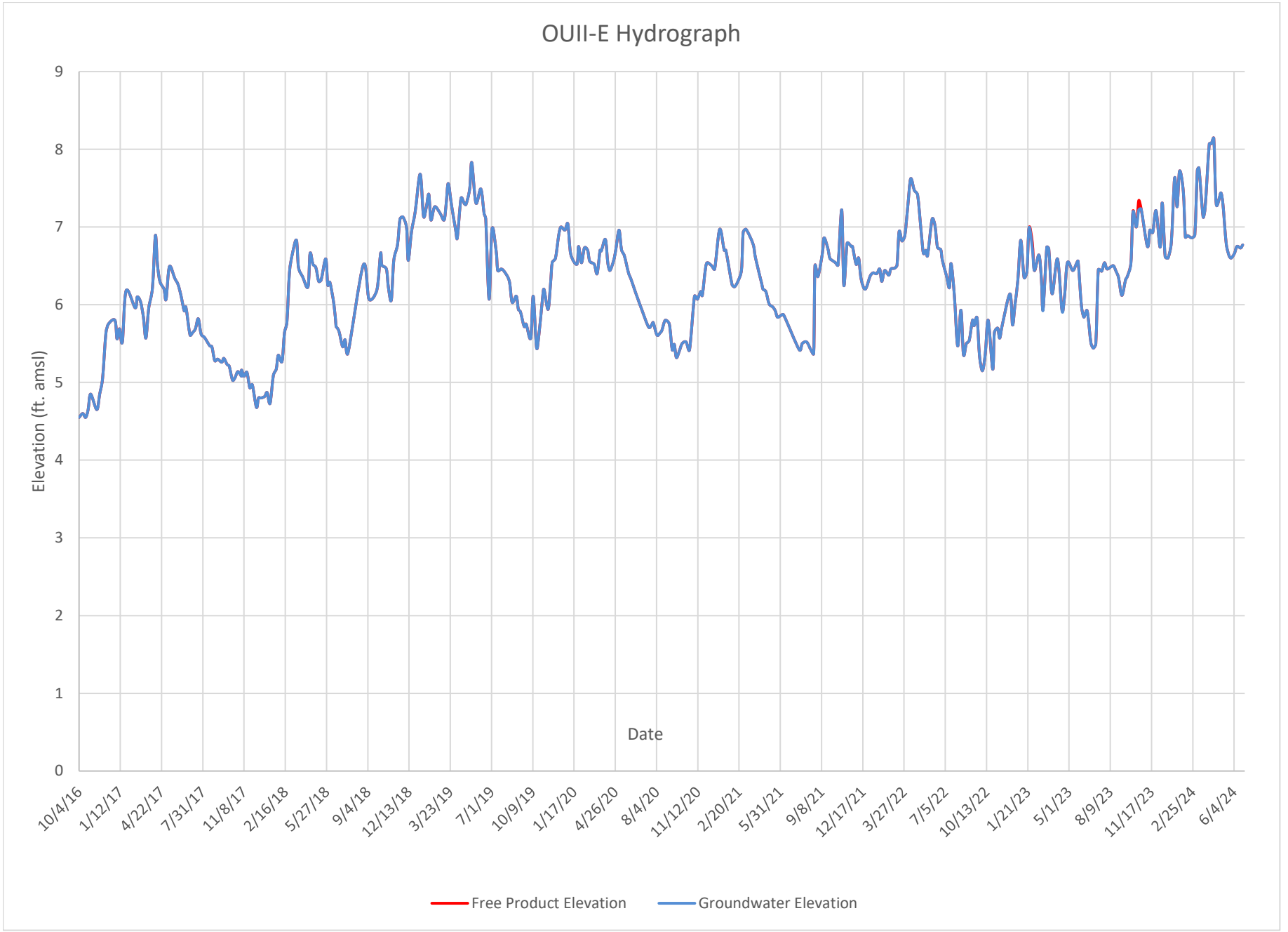
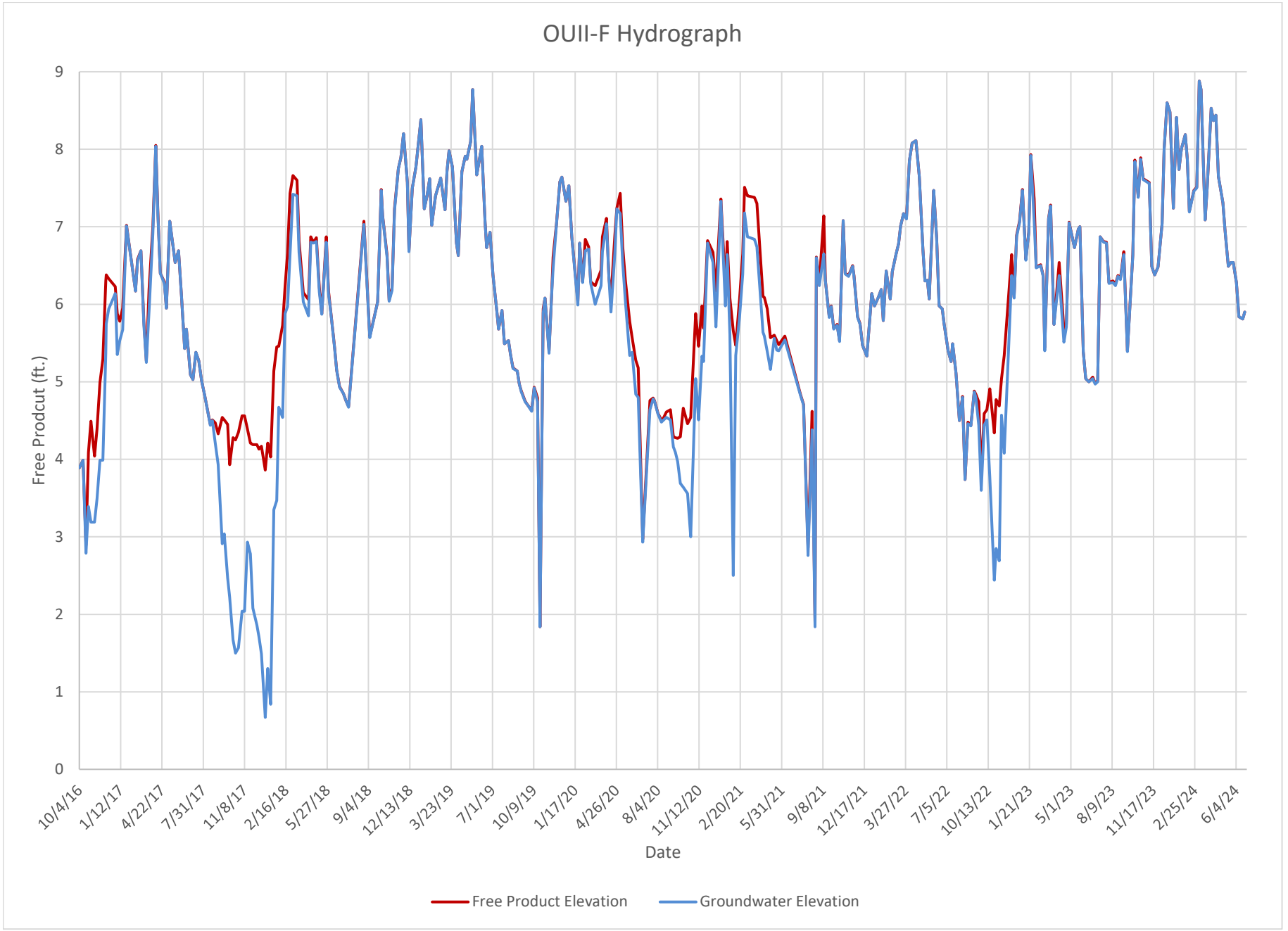
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT C

Site Inspection

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?		x	
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		X	
Is there any evidence of settlement?		X	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

Good condition

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	X		
Is there debris or other material on the slopes?		x	x
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Repair of stick up well AI 1-11 for 2024. Well stick up was knocked over and pvc pipe was sheared off at ground level.

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full?		x	
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	X		

Specify Correction Actions Needed:

Date of Inspection: 4/19/24 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: JULY 1, 2024 THROUGH SEPTEMBER 30, 2024

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between July 1, 2024 and September 30, 2024 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

A conference call to review the status of work completed at the Site was conducted with representatives from the New York State Department of Environmental Conservation (NYSDEC), TRC Engineering (TRC), Metro North Railroad (MNR), and Day Engineering, P.C. (DAY) on May 2, 2024. Based on discussions during this conference call, a work plan describing the activities proposed to evaluate Light Non-Aqueous Phase Liquid (LNAPL) at, and in the vicinity of, Harmon Yard OU-II L4 area was prepared and this plan was sent to the NYSDEC on June 21, 2024. MNR contacted the adjacent property owners (i.e., Village of Harmon-on-Croton and Westchester County), provided a description of the proposed work to be completed on these adjacent properties, and requested access to complete this work. The Village of Harmon-on-Croton requested that MNR complete an access agreement, and this access agreement was prepared and sent the Village of Harmon-on-Croton on June 12, 2024. Westchester County requested a directive from the NYSDEC, which was provided by the NYSDEC on September 5, 2024. On September 13, 2024, a Westchester County representative indicated in an email that some of the proposed test boring locations would be within feet of the landfill liner, or possibly on top of the liner. Thus, Westchester County proposed adjusting the location of these test borings to the north to reduce the possibility of damage to the landfill's liner system. As of the date of this report, MNR is in the process of reviewing and revising the locations of the proposed test borings.

In addition to the work plan discussed above, a document describing historic conditions within the OU-II NAPL L1 area and impacts on the adjacent Half Moon Bay property was also submitted to the NYSDEC.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented

on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on August 6, 2024 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and June 30, 2024) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between July 1, 2024 and September 30, 2024), and the preceding report period (i.e., between December 1, 2012 and June 30, 2024) is included as Figure 2.

Wells RW-1, AI2-3, and FA4-8 formerly contained Spill Busters™; however, these systems are no longer functional, cannot be repaired, and are no longer available for purchase. Therefore, a Geotech Product Recovery Canister (PRC) Passive Skimmer (i.e., a passive skimmer designed to recover product-only layers) was installed in well FA4-17 in this quarter, and a belt skimmer was installed in well FA4-8 in May 2024. Currently, both of these recovery systems are operational. Note: A portable Spill Buddy™ was previously used to remove free product from other wells containing sufficient amounts of free product; however, this system is also no longer functional. As a replacement of the Spill Buddy™, a peristaltic pump connected to a Heron Oil-Water interface probe is being used to remove free product from other wells. Five additional Geotech PRC Passive Skimmers have been purchased and are expected to be installed in October 2024.

A total of approximately 41.67 gallons of free product was removed from wells V4, FA4-8, FA4-9, FA4-14, FA4-17, FA4-18, RW-1, and VE4-5 during the current report period. The majority of the free product was removed from wells in the NAPL Area L4. The total amount of free product removed in the previous reporting period (i.e., between April 1, 2024 to June 30, 2024) was approximately 46.50 gallons. In a similar calendar period (i.e., between July 1, 2023 to September 30, 2023) 58.91 gallons were removed. Since January 1, 2013, approximately 5,231 gallons of free product or approximately 111 gallons per reporting period (i.e., every three months) have been removed from the Site.

The free product removed during the reporting period was placed in a 55-gallon drum, which is stored in a waste accumulation area. Samples were not collected from this drum for testing in the current report period. In addition, full drums were not removed from the Site for disposal in the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected

in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

Note: The next groundwater sampling event is scheduled to be completed in October 2024. During the October 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples collected from monitoring wells VE1-4, VE2-1, and VE4-11 will also be tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs. [Note: This sampling was completed in October 2024 and the results will be included in the Status Report for that period.]

Note: Copies of the laboratory packages received will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-B, OUII-D, and OUII-E, ranging in thickness between 0.01 ft. (monitoring well OUII-E) and 1.21 ft. (monitoring well MW-D). Free product was recovered from off-site monitoring wells OUII-B and OUII-D during the report period (Note: 0.03 gallons of free product was removed from off-site monitoring well OUII-D. The amount of free product recovered from monitoring well OUII-B was not provided).

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. As shown on Figure 3, the thickness of free product measured in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F during this period are comparable or lower to the thicknesses measured in previous report periods during a similar timeframe (i.e., July through September).

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment B.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). Free product was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. However, the validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event, and free product has not previously been detected in well WB-9 or subsequent to the detection reported on November 13, 2023).

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on April 19, 2024 by MNR. During this inspection, it was determined that repair of stick-up well AI 1-11 is required. Reportedly, the PVC was sheared at ground level.

The next bi-annual inspection is scheduled for October 2024.

EMERGENCY OU-I AND OU-II INSPECTION: Emergency inspections of OU-I and OU-II were not required during the current report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between October 1, 2024 and December 31, 2024), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from well FA4-17 using a Passive Skimmer, from well FA4-8 using a belt skimmer, and from

remaining wells using a peristaltic pump. [Note: Five additional passive skimmers have been purchased for installation in OUII wells.]

Note: Generally, if 0.5 ft. or more of free product is measured in on-site wells; it should be removed. If 1.0 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using the peristaltic pump or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well AI 1-11 should be repaired and secured by having the PVC cut flush and a j-plug secured at the top of the PVC casing.

The next OU-I/OU-II inspection is due on or about October 31, 2024. The next groundwater sampling and testing will be completed in October 2024. A SMP status report for the work completed during the upcoming period (i.e., October 1, 2024 through December 31, 2024) will be submitted in January 2025.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

It is anticipated that the work described in the LNAPL Evaluation Work Plan will commence in November 2024 pending the approval for site access from the adjacent property owners and the availability of contractors.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: July 1, 2024 through September 30, 2024
Table 2: Historic Free Product Removal Totals: December 1, 2012 through April 31, 2024
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: August 2024
Figure 2: Summary of Free Product Removal for the Report Periods July 1, 2024 – September 30, 2024 and April 1, 2024 – June 30, 2024
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: July 1, 2024 – September 30, 2024
Attachment B: Off-Site Monitoring Well Hydrographs

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TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: July 1, 2024 through September 30, 2024

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	1.38
Total	**1.38**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3	0
VE2-1	0
Total	**0**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	20
FA4-9	0.5
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	0.5
FA4-15	0
FA4-16	0
FA4-17**	0.52
FA4-18	0.5
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	15.01
VE4-1	0
VE4-5	3.26
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**40.29**

NM = Not measured
Free product was removed from majority of wells using a peristaltic pump
*Free product was removed using a belt skimmer
**Free product was removed using a Geotech product only bailer

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - June 30, 2024

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.56
Total	**197.055**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	26.79
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**36.782**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1086.43
VE2-1	0
Total	**1088.06**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	617.01
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	315.19
FA4-15	87.79
FA4-16	76.56
FA4-17	94.48
FA4-18	126.41
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1963.1
VE4-1	0
VE4-5	242.66
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3850.52**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2																VE 1-4												
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																										
		VE 2-1															VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 2-1														
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 1-4														03092023DUP
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date														
		VE 3-1														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11																DAY 1												
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
Chrysene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-2														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 Continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

H = Result may be biased high

* = Indicates that the duplicate analysis is not within control limits

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

Cl = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

Table 8 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006
January 1, 2024 - March 31, 2024	Depth to Static Water Level	6.34-7.55	6.84-8.30	5.60-7.00	8.23-10.05	6.99-7.95	2.61-4.40
	Range of Free Product Thickness (ft.)	0-0.01	0.42-1.33	0	1.64-3.66	0-0.01	0-0.01
	Average Free Product Thickness (ft.)	0.002	0.890	0	2.40	0.002	0.002
April 1, 2024 - June 30, 2024	Depth to Static Water Level	6.65-8.00	6.37-7.88	6.08-8.49	6.87-8.03	6.61-8.12	2.96-5.68
	Range of Free Product Thickness (ft.)	0	0.50-1.49	0	1.48-2.63	0-0.01	0
	Average Free Product Thickness (ft.)	0	0.85	0	1.94	0.001	0
July 1, 2024 - September 30, 2024	Depth to Static Water Level	7.49-8.64	7.22-8.47	7.30-8.52	7.59-8.53	7.77-8.74	3.99-8.08
	Range of Free Product Thickness (ft.)	0	0-1.11	0	0.21-1.21	0	0-0.01
	Average Free Product Thickness (ft.)	0	0.21	0	0.85	0	0.005

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- AI1-12 (4.74 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made August 2024
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	10-2024
DATE DRAWN	10-2024
DATE ISSUED	10-09-2024

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

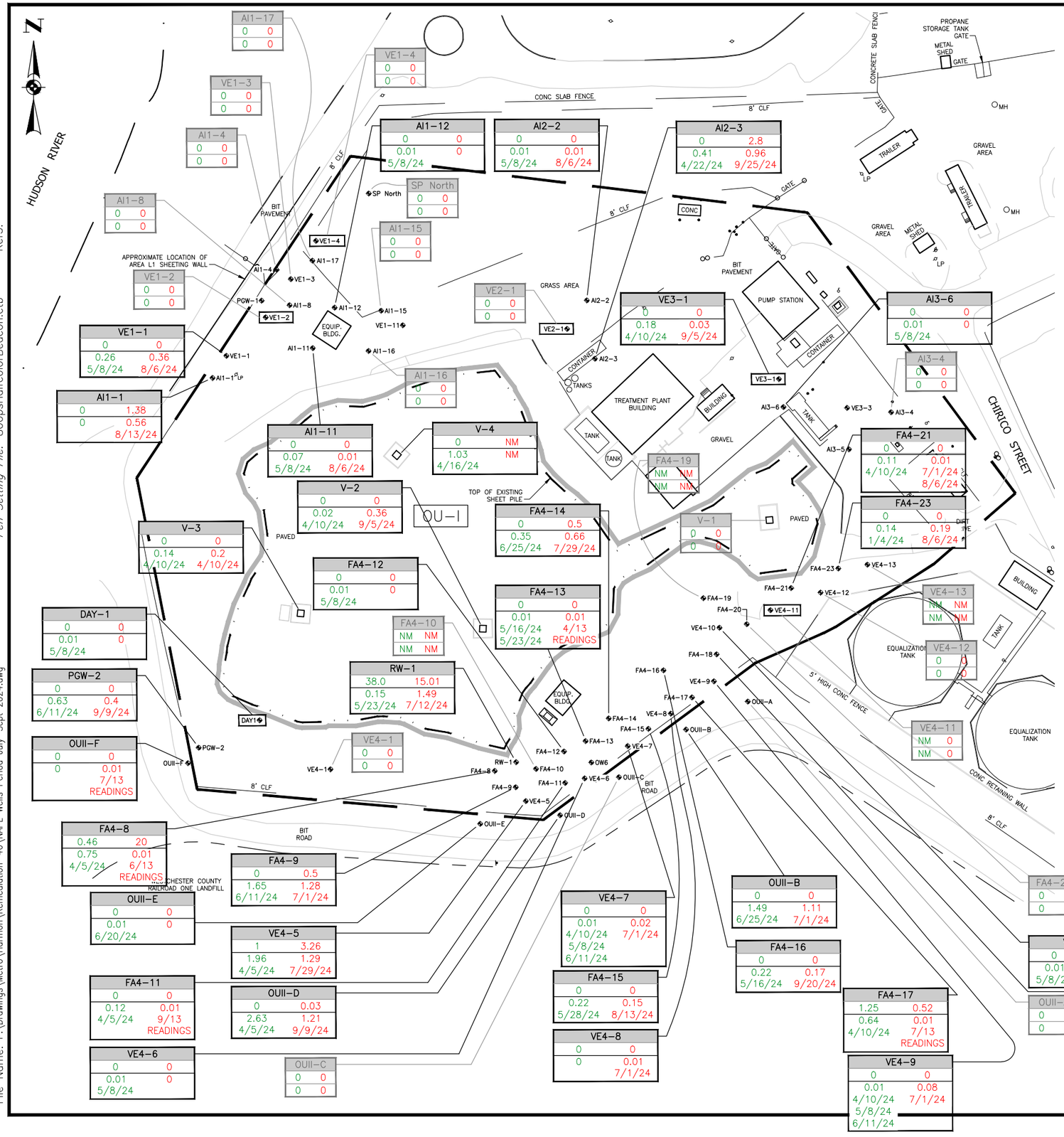
PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: August 2024

Project No.
23-3690M

FIGURE 1

Last Date Saved: 10/15/2024 1:40 PM Document Path: E:\GIS Mapping\MNR\MNR GIS Server Data\MNR\Harmon Yard\OU1_OU2\Harmon OUII_OUII GW Mapping.aprx



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C–1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C–2, dated 7/31/00.
2. Operable Unit II (OU–II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY–1, RW–1, etc...)
3. Free Product is removed from RW–1, AI2–3, FA4–8 and FA4–17 using a Spill Buster product removal pump and placed within 55–gallon drums.

LEGEND:

VE1–3	Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
VE1–2	Long–Term Monitoring Well
– – –	Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
	Extent Of OU–I Final Cover System
	OU–II Boundary
V–1	OU–I Contingency Vapor Extraction System Wells
FA4–14 / 0 0.5 / 0.35 0.66 / 6/25/24 7/29/24	Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period April 1, 2024 Through June 30, 2024 Shown In Green (Left)

Measurements Made During The Report Period July 1, 2024 Through September 30, 2024 Shown In Red (Right)

NM Well Not Measured

ND Not Detected

SITE PLAN
1" = 80'

0' 80' 160' 240'

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT MANAGER	HMM
DATE	10/2024
DRAWN BY	RJM/CPS/TW
DATE DRAWN	10/10/2024
SCALE	As Noted
DATE ISSUED	10/10/2024

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
April - June 2024 and July - September 2024

PROJECT NO.
24-3717M

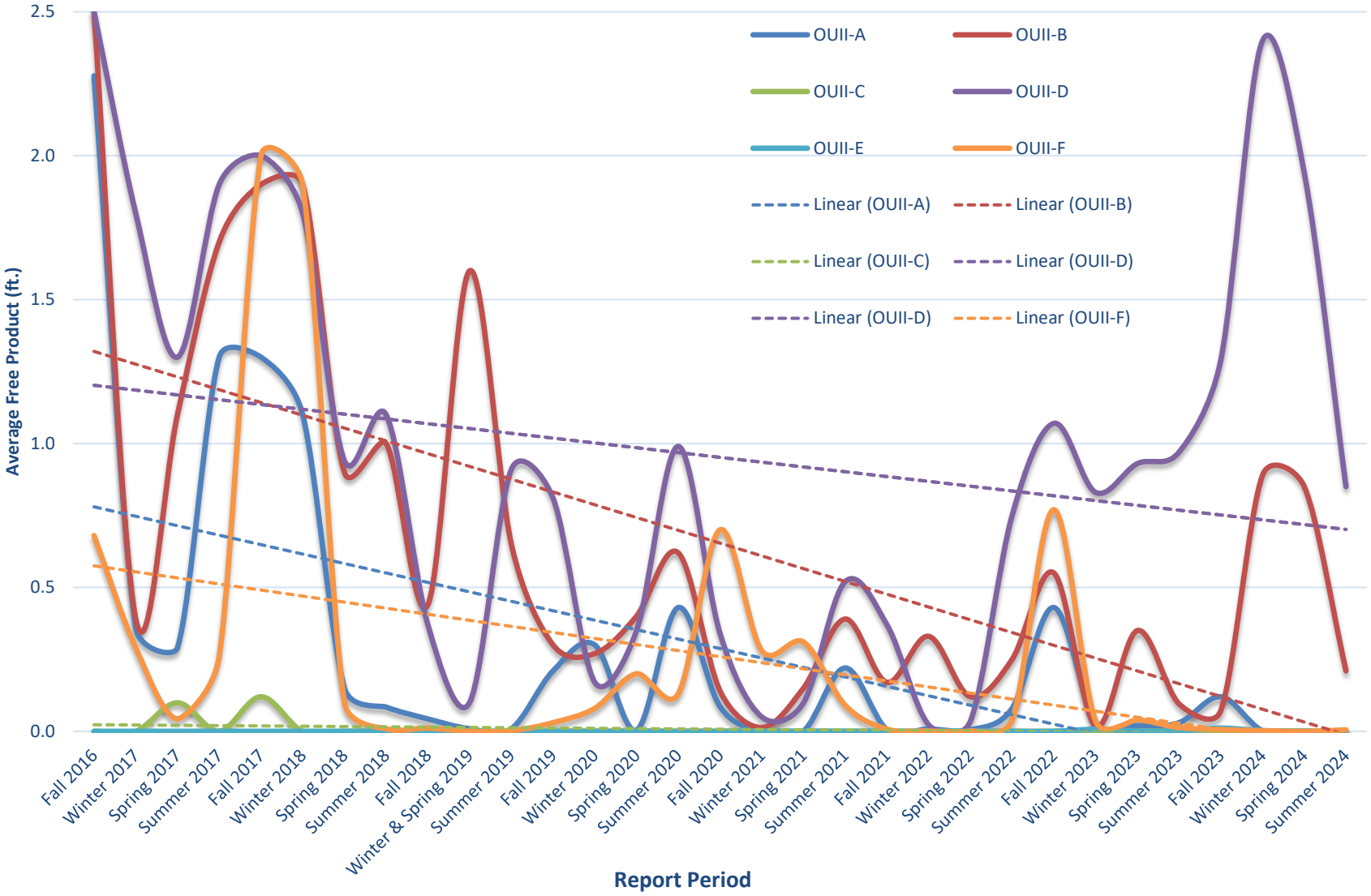
FIGURE 2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Thursday, October 10, 2024 7:18:21 AM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period July–Sept 2024.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records

July 1, 2024 through September 30, 2024

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13..25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	15.91	0	0	
8/6/2024	-	16.01	0	0	
9/5/2024	-	15.74	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	17.11	17.12	0.01	0	
8/6/2024	17.05	17.06	0.01	0	
9/5/2024	16.65	17.01	0.36	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	16.76	16.77	0.01	0	
8/6/2024	16.58	16.66	0.08	0	
9/5/2024	16.35	16.55	0.2	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	15.95	16.06	0.11	0	
7/12/2024	15.93	16.11	0.18	0	
7/16/2024	14.98	15.35	0.37	0	
7/24/2024	14.85	15.22	0.37	0	
7/29/2024	15.64	15.75	0.11	0	
8/6/2024	15.81	16.03	0.22	0	
8/13/2024	15.35	15.91	0.56	1.38	
8/19/2024	15.28	15.45	0.17	0	
8/30/2024	15.4	15.65	0.25	0	
9/5/2024	15.52	15.81	0.29	0	
9/9/2024	15.55	15.94	0.39	0	
9/20/2024	15.75	16.13	0.38	0	
9/25/2024	15.75	16.12	0.37	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	11.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	10	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.11	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	13.68	13.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	16.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	14.76	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	11.84	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	9.31	0	0	
7/12/2024	-	9.26	0	0	
7/16/2024	-	9.33	0	0	
7/24/2024	-	9.31	0	0	
7/29/2024	-	9.11	0	0	
8/6/2024	-	9.11	0	0	
8/13/2024	-	8.71	0	0	
8/19/2024	-	8.61	0	0	
8/30/2024	-	8.75	0	0	
9/5/2024	-	8.9	0	0	
9/9/2024	-	8.98	0	0	
9/20/2024	-	9.12	0	0	
9/25/2024	-	9.14	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	8.25	8.61	0.36	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	9.15	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	8.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	9.83	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	11.58	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	14.87	14.88	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/1/2024	15.11	15.59	0.48	0	well casing is cracked
7/12/2024	15.05	15.5	0.45	0	
7/16/2024	15.24	15.66	0.42	0	
7/24/2024	15.22	15.59	0.37	0	
7/29/2024	14.96	15.59	0.63	0	
8/6/2024	15.15	15.55	0.4	0	
8/13/2024	14.7	15.38	0.68	1.25	
8/19/2024	14.55	14.95	0.4	0	
8/30/2024	14.65	15.12	0.47	0	
9/5/2024	14.84	15.29	0.45	0	
9/9/2024	15.01	15.45	0.44	0	
9/20/2024	15.1	15.55	0.45	0	
9/25/2024	15.15	16.11	0.96	1.5	

Casing of Spill Buster is reportedly cracked and no longer functional.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	10.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	10.53	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	16.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	11.03	11.04	0.01	0	
8/6/2024	-	12.65	0	0	
9/5/2024	10.81	10.84	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	16.39	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/1/2024	16.25	16.26	0.01	0	
7/12/2024	16.35	16.36	0.01	0	
7/16/2024	16.4	16.41	0.01	0	
7/24/2024	16.38	16.39	0.01	0	
7/29/2024	16.24	16.25	0.01	0	
8/6/2024	16.31	16.32	0.01	0	
8/13/2024	-	15.95	0	0	drum 0.97
8/19/2024	-	15.81	0	0	drum 0.97
8/30/2024	-	15.92	0	0	drum 1.06
9/5/2024	-	16.11	0	0	drum 1.02
9/9/2024	-	15.15	0	0	drum 1.07
9/20/2024	-	16.34	0	0	drum 1.09
9/25/2024	-	16.38	0	0	drum 1.07

Belt skimmer installed in well. Height of drum is assumed to be approximately 3.0 ft and equal to approximately 55 gallons. Approximately 20.0 gallons of ree product removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	7.72	9	1.28	0	
8/6/2024	8.11	9.25	1.14	0.5	
9/5/2024	7.45	7.55	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	11.28	11.29	0.01	0	
7/12/2024	11.33	11.34	0.01	0	
7/16/2024	11.42	11.43	0.01	0	
7/24/2024	11.36	11.37	0.01	0	
7/29/2024	11.2	11.21	0.01	0	
8/6/2024	11.33	11.34	0.01	0	
8/13/2024	-	10.34	0	0	
8/19/2024	-	10.12	0	0	
8/30/2024	10.54	10.55	0.01	0	
9/5/2024	-	10.78	0	0	
9/9/2024	-	10.94	0	0	
9/20/2024	11.25	11.26	0.01	0	
9/25/2024	11.48	11.49	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	14.21	14.23	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	10.68	10.69	0.01	0	
7/12/2024	10.78	10.79	0.01	0	
7/16/2024	10.75	10.76	0.01	0	
7/24/2024	10.73	10.74	0.01	0	
7/29/2024	-	10.69	0	0	
8/6/2024	-	10.74	0	0	
8/13/2024	-	9.89	0	0	
8/19/2024	-	9.61	0	0	
8/30/2024	-	10.14	0	0	
9/5/2024	-	10.48	0	0	
9/9/2024	-	10.52	0	0	
9/20/2024	-	10.79	0	0	
9/25/2024	-	10.93	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	13.09	13.55	0.46	0	
7/12/2024	13.12	13.54	0.42	0	
7/16/2024	13	13.4	0.4	0	
7/24/2024	12.39	12.97	0.58	0	
7/29/2024	13.05	13.71	0.66	0.5	
8/6/2024	13.35	13.64	0.29	0	
8/13/2024	12.56	12.94	0.38	0	
8/19/2024	12.33	12.71	0.38	0	
8/30/2024	12.7	13.01	0.31	0	
9/5/2024	12.88	13.22	0.34	0	
9/9/2024	13.01	13.41	0.4	0	
9/20/2024	13.14	13.58	0.44	0	
9/25/2024	13.25	13.71	0.46	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	10.11	10.19	0.08	0	
7/12/2024	10.18	10.26	0.08	0	
7/16/2024	10.22	10.35	0.13	0	
7/24/2024	10.2	10.33	0.13	0	
7/29/2024	10.08	10.17	0.09	0	
8/6/2024	10.19	10.2	0.01	0	
8/13/2024	9.51	9.66	0.15	0	
8/19/2024	9.26	9.29	0.03	0	
8/30/2024	9.74	9.78	0.04	0	
9/5/2024	9.95	10.05	0.1	0	
9/9/2024	10.01	10.03	0.02	0	
9/20/2024	10.2	10.21	0.01	0	
9/25/2024	10.28	10.32	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	14.18	14.29	0.11	0	
7/12/2024	14.24	14.34	0.1	0	
7/16/2024	14.3	14.41	0.11	0	
7/24/2024	14.28	14.42	0.14	0	
7/29/2024	14.15	14.31	0.16	0	
8/6/2024	14.28	14.35	0.07	0	
8/13/2024	13.72	13.73	0.01	0	
8/19/2024	13.61	13.64	0.03	0	
8/30/2024	13.81	13.93	0.12	0	
9/5/2024	14.04	14.05	0.01	0	
9/9/2024	14.05	14.12	0.07	0	
9/20/2024	14.25	14.42	0.17	0	
9/25/2024	14.34	14.42	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	10.45	10.46	0.01	0.25	
7/12/2024	10.48	10.49	0.01	0.06	
7/16/2024	10.55	10.56	0.01	0.06	
7/24/2024	10.52	10.53	0.01	0	
7/29/2024	10.36	10.37	0.01	0	
8/6/2024	10.48	10.49	0.01	0.06	
8/13/2024	-	9.89	0	0	drum 2.95
8/19/2024	-	9.78	0	0.06	
8/30/2024	-	10.32	0	0	drum 2.95
9/5/2024	10.18	10.19	0.01	0.03	
9/9/2024	-	10.32	0	0	drum 2.95
9/20/2024	-	10.68	0	0	drum 3.075
9/25/2024	-	10.58	0	0	drum 2.95

Spill Buster™formerly located in well, removed in 2020. Geotech product only bailer installed in July 2024.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	12.68	13.15	0.47	0	
7/12/2024	12.75	13.04	0.29	0	
7/16/2024	12.7	13.05	0.35	0	
7/24/2024	12.65	13.01	0.36	0	
7/29/2024	12.65	13.1	0.45	0.5	
8/6/2024	12.81	12.82	0.01	0	
8/13/2024	-	12.22	0	0	
8/19/2024	-	12.07	0	0	
8/30/2024	12.31	12.4	0.09	0	
9/5/2024	12.51	12.71	0.2	0	
9/9/2024	12.65	12.8	0.15	0	
9/20/2024	12.79	12.89	0.1	0	
9/25/2024	12.87	12.95	0.08	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-		0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	13.41	13.42	0.01	0	
8/6/2024	13.33	13.34	0.01	0	
9/5/2024	-	13.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	12.91	12.92	0.01	0	
8/6/2024	12.75	12.94	0.19	0	
9/5/2024	12.74	12.76	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	6.85	7.02	0.17	0	
7/12/2024	6.75	6.95	0.2	0	
7/16/2024	6.82	7	0.18	0	
7/24/2024	6.75	6.92	0.17	0	
7/29/2024	6.91	7.02	0.11	0	
8/6/2024	6.9	6.93	0.03	0	
8/13/2024	5.51	5.52	0.01	0	
8/19/2024	5.15	5.31	0.16	0	
8/30/2024	6	6.29	0.29	0	
9/5/2024	6.39	6.71	0.32	0	
9/9/2024	6.6	7	0.4	0	
9/20/2024	-	6.94	0	0	
9/25/2024	-	6.97	0	0	

Table 2

Harmon Railroad Yard
OU I and OU II
Westchester County, New York
Site No. 3-60-010

Metro-North Railroad - Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
7/1/2024	14.32	15.71	1.39	0.63	drum 0.72 Autoseeker computer not working
7/12/2024	14.41	15.89	1.48	1	
7/16/2024	14.55	14.65	0.1	0	
7/24/2024	14.49	14.57	0.08	0	
7/29/2024	14.3	15.79	1.49	3.25	
8/6/2024	14.55	15.75	1.2	3	
8/13/2024	14	14.65	0.65	1.25	
8/19/2024	13.81	13.85	0.04	0	
8/30/2024	14.15	14.45	0.3	0	
9/5/2024	14.35	14.71	0.36	0	
9/9/2024	14.35	15.01	0.66	1.63	
9/20/2024	14.45	14.89	0.44	0	
9/25/2024	14.43	15.11	0.68	4.25	

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.65 ft and equal to approximately 55 gallons. Comment on 6/25/2024 stated 'drum 0.75 ft'. Approximately ~ gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	8.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	9.33	10.05	0.72	0.5	
7/12/2024	9.46	9.82	0.36	0	
7/16/2024	9.62	10	0.38	0	
7/24/2024	9.55	9.92	0.37	0	
7/29/2024	9.27	10.56	1.29	1.25	
8/6/2024	9.55	9.89	0.34	0	
8/13/2024	8.9	9.55	0.65	0.63	
8/19/2024	8.65	8.78	0.13	0	
8/30/2024	9.01	9.34	0.33	0	
9/5/2024	9.29	9.55	0.26	0	
9/9/2024	9.35	9.61	0.26	0	
9/20/2024	9.51	9.86	0.35	0	
9/25/2024	9.56	9.85	0.29	0.88	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	8.1	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	7.54	7.56	0.02	0	
8/6/2024	-	7.65	0	0	
9/5/2024	7.31	7.32	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	7.88	7.89	0.01	0	
8/6/2024	-	8	0	0	
9/5/2024	-	7.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	8.17	8.25	0.08	0	
8/6/2024	-	8.26	0	0	
9/5/2024	8.8	8.81	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	12.48	12.49	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	14.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	8.45	0	0	
7/12/2024	-	8.41	0	0	
7/16/2024	-	8.6	0	0	
7/24/2024	-	8.58	0	0	
7/29/2024	-	7.49	0	0	
8/6/2024	-	8.55	0	0	
8/13/2024	-	7.9	0	0	
8/19/2024	-	7.62	0	0	
8/30/2024	-	7.71	0	0	
9/5/2024	-	8.28	0	0	
9/9/2024	-	8.35	0	0	
9/20/2024	-	8.62	0	0	
9/25/2024	-	8.64	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	8.25	9.36	1.11	0	
7/12/2024	8.15	8.66	0.51	0	
7/16/2024	8.2	8.59	0.39	0	
7/24/2024	8.17	8.6	0.43	0	
7/29/2024	8.11	8.18	0.07	0	
8/6/2024	8.45	8.58	0.13	0	
8/13/2024	7.65	7.66	0.01	0	pumped oil out
8/19/2024	-	7.22	0	0	
8/30/2024	-	7.32	0	0	
9/5/2024	7.91	7.92	0.01	0	
9/9/2024	8.3	8.31	0.01	0	
9/20/2024	8.28	8.29	0.01	0	
9/25/2024	8.3	8.31	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	8.4	0	0	
7/12/2024	-	8.35	0	0	
7/16/2024	-	8.09	0	0	
7/24/2024	-	8.05	0	0	
7/29/2024	-	8.45	0	0	
8/6/2024	-	8.52	0	0	
8/13/2024	-	7.61	0	0	
8/19/2024	-	7.35	0	0	
8/30/2024	-	7.3	0	0	
9/5/2024	-	7.69	0	0	
9/9/2024	-	8.21	0	0	
9/20/2024	-	8.15	0	0	
9/25/2024	-	8.18	0	0	

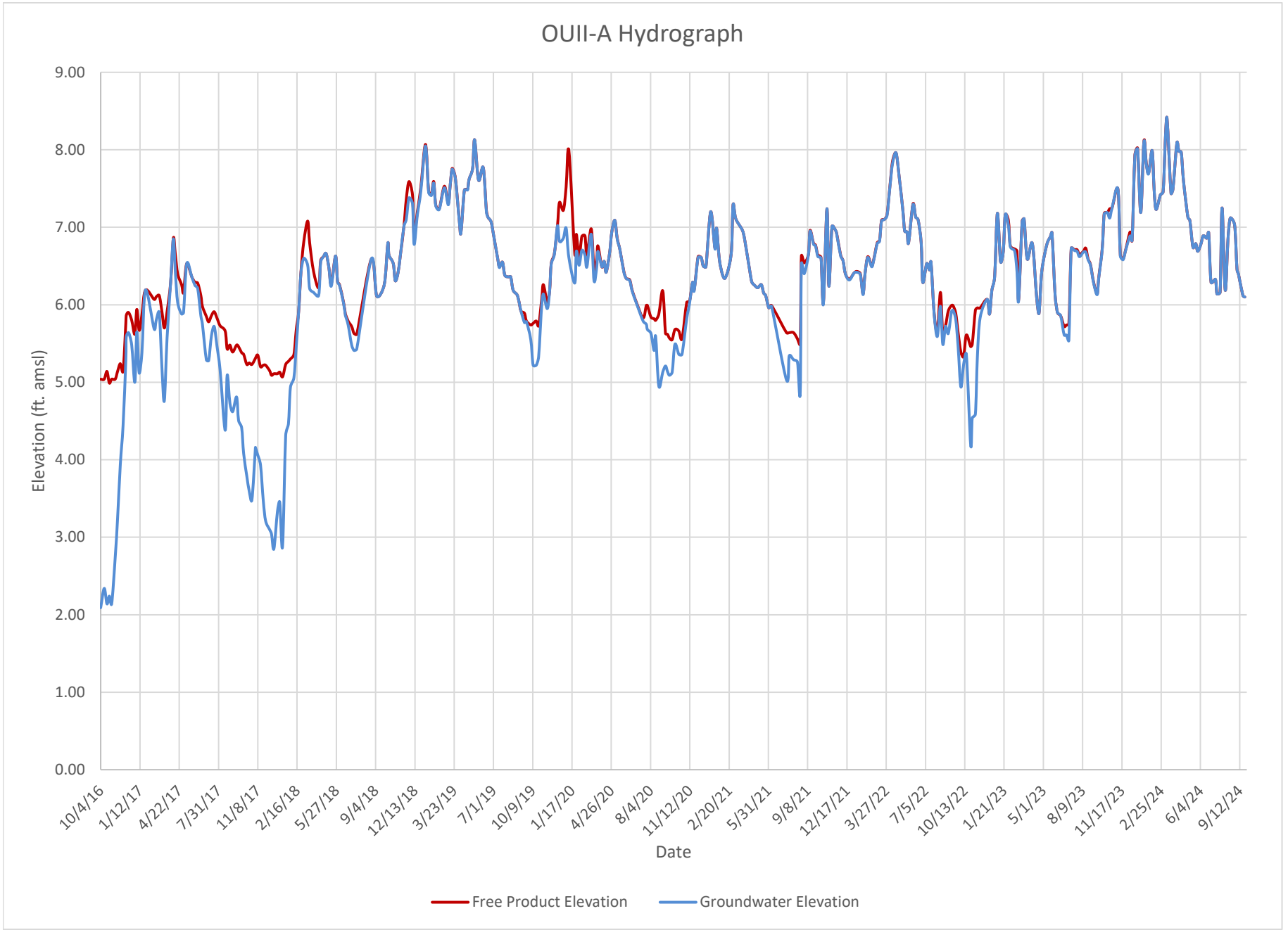
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	8.25	9.35	1.1	0	
7/12/2024	8	9.18	1.18	0	
7/16/2024	8.34	9.34	1	0	
7/24/2024	8.27	8.49	0.22	0	
7/29/2024	8.25	9.34	1.09	0	
8/6/2024	8.4	9.26	0.86	0	
8/13/2024	7.75	8.59	0.84	0.03	pumped oil out 1/8 of quart
8/19/2024	7.41	8.61	1.2	0	
8/30/2024	7.55	8.68	1.13	0	
9/5/2024	8.06	8.89	0.83	0	
9/9/2024	8.22	9.43	1.21	0	
9/20/2024	8.41	8.62	0.21	0	
9/25/2024	8.44	8.65	0.21	0	

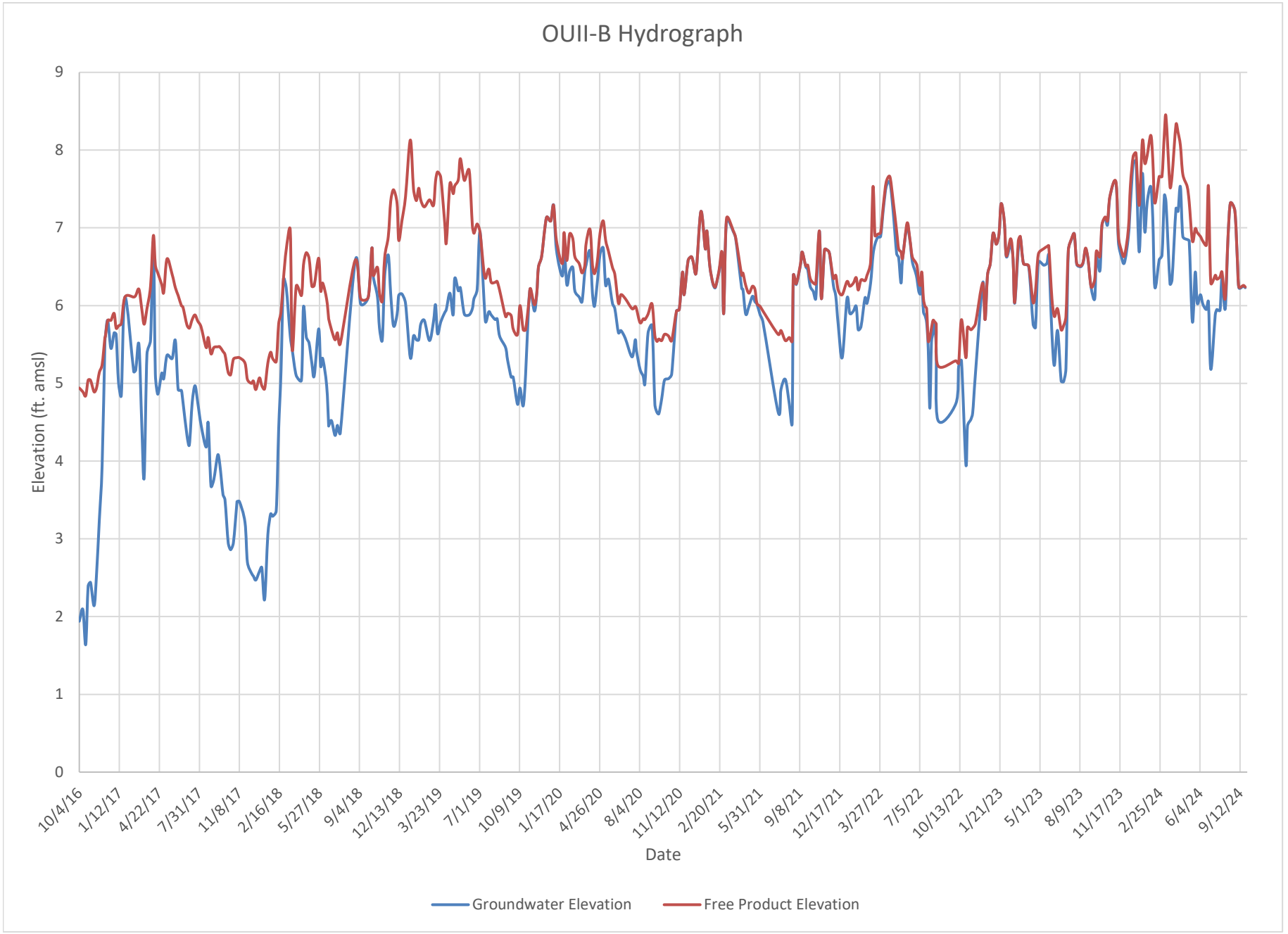
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	6.25	0	0	
7/12/2024	-	6.12	0	0	
7/16/2024	-	6.01	0	0	
7/24/2024	-	5.85	0	0	
7/29/2024	5.81	5.82	0.01	0	
8/6/2024	6.2	6.21	0.01	0	
8/13/2024	4.41	4.42	0.01	0	
8/19/2024	-	4.02	0	0	
8/30/2024	-	3.99	0	0	
9/5/2024	5.41	5.42	0.01	0	
9/9/2024	5.6	5.61	0.01	0	
9/20/2024	8.05	8.06	0.01	0	
9/25/2024	8.08	8.09	0.01	0	

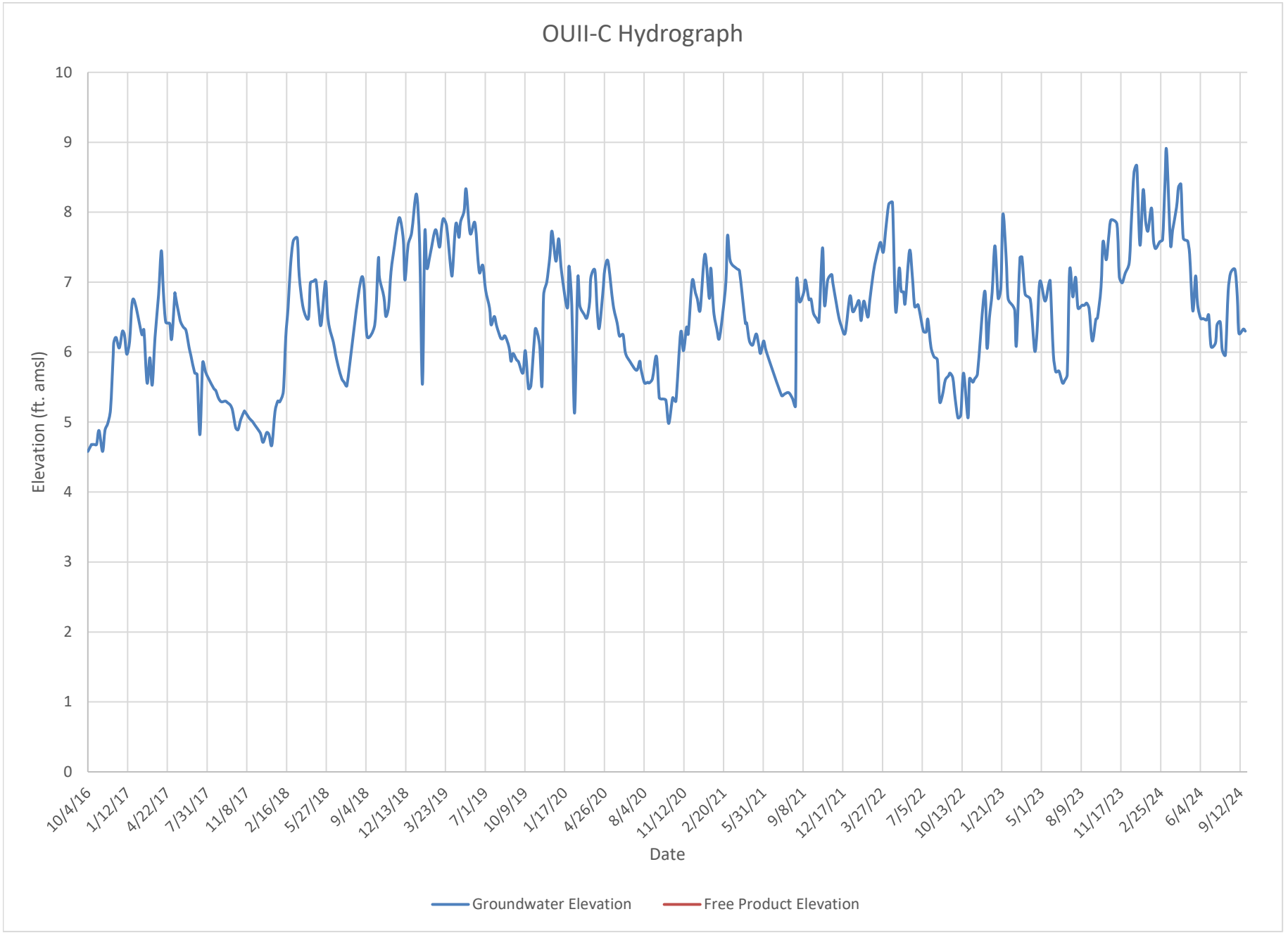
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/1/2024	-	8.54	0	0	
7/12/2024	-	8.46	0	0	
7/16/2024	-	8.66	0	0	
7/24/2024	-	5.85	0	0	
7/29/2024	-	8.58	0	0	
8/6/2024	-	8.71	0	0	
8/13/2024	-	8.12	0	0	
8/19/2024	-	7.77	0	0	
8/30/2024	-	7.81	0	0	
9/5/2024	-	8.08	0	0	
9/9/2024	-	8.52	0	0	
9/20/2024	-	8.73	0	0	
9/25/2024	-	8.74	0	0	

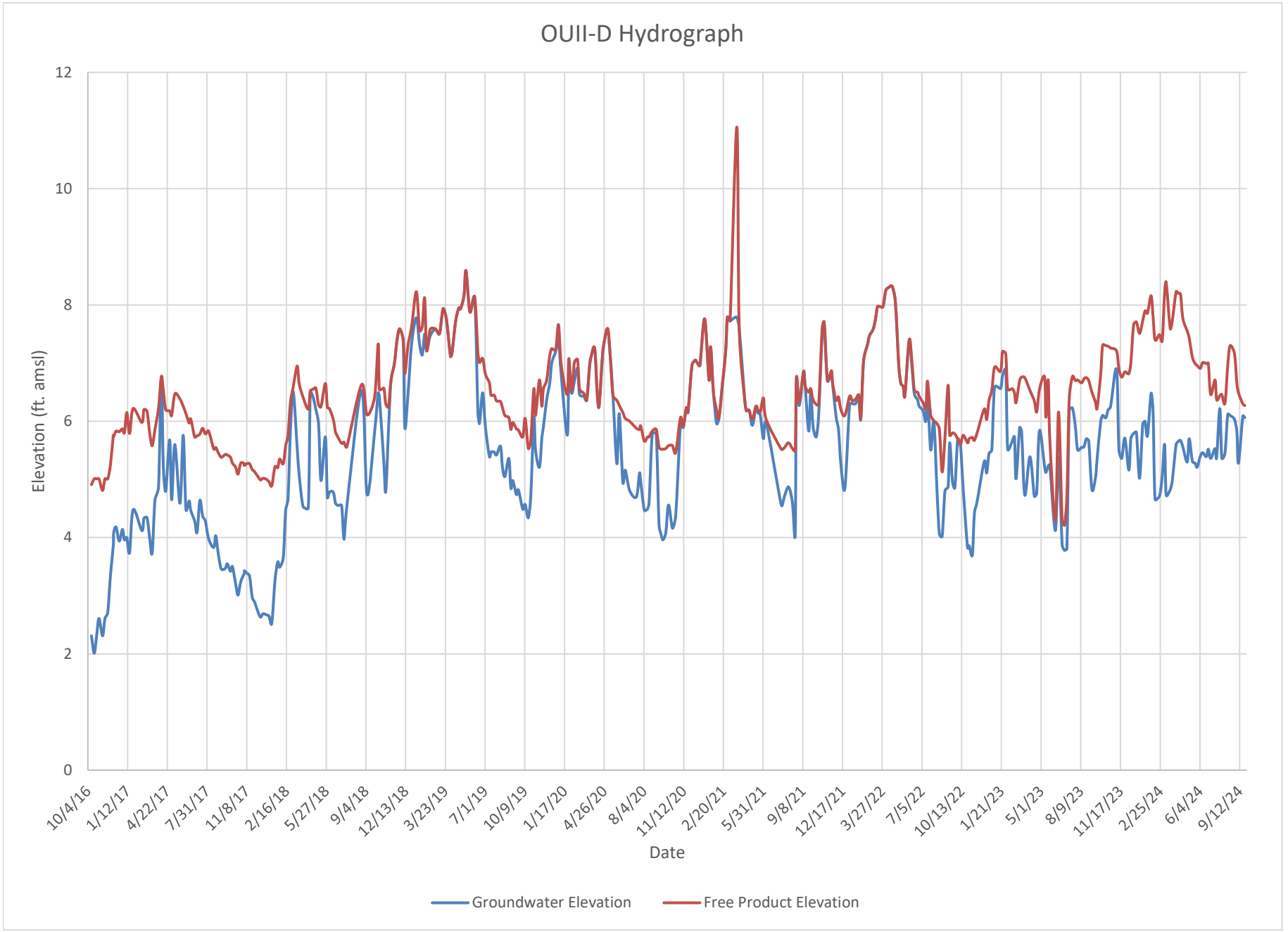
ATTACHMENT B

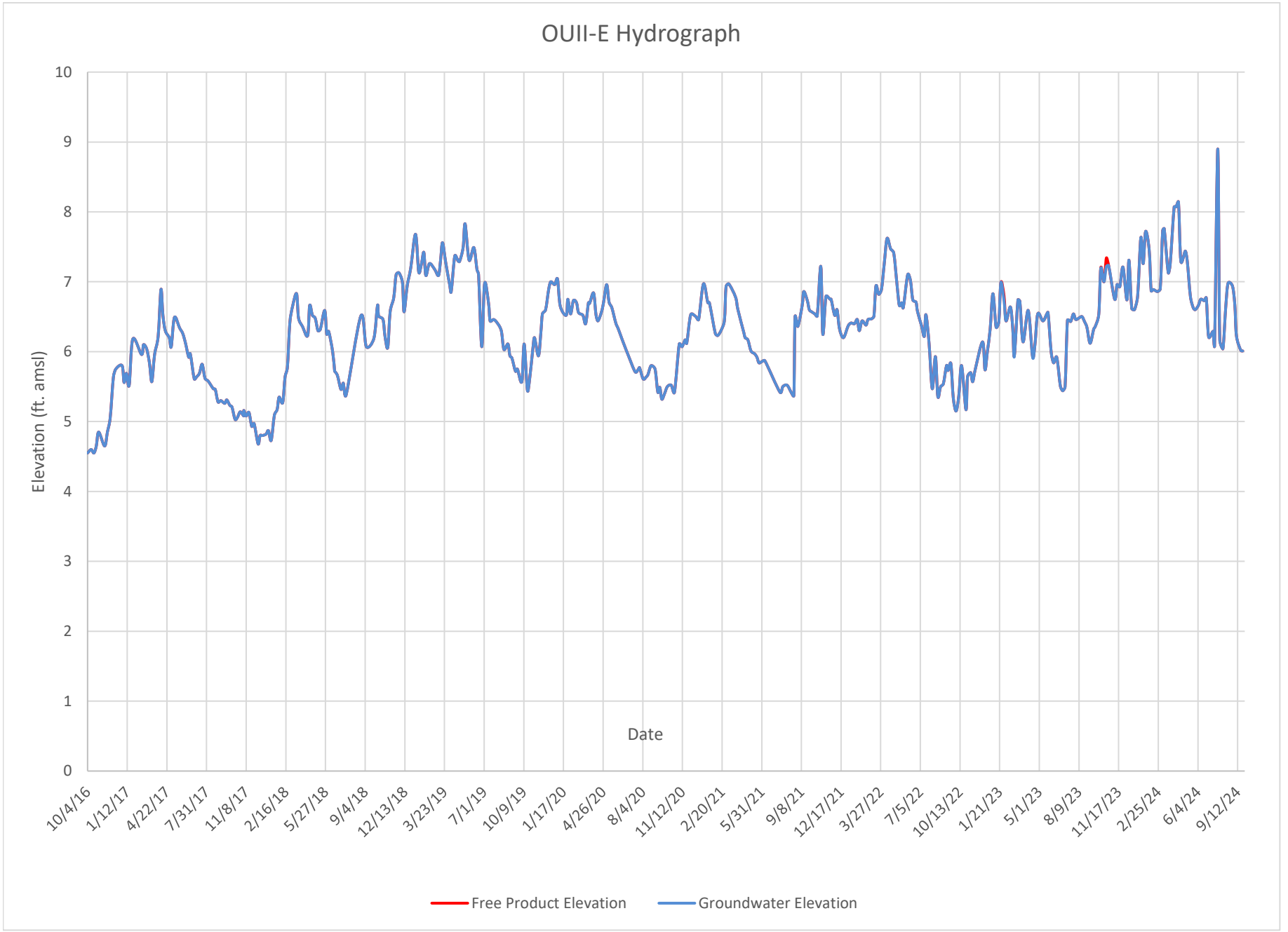
Off-Site Monitoring Well Hydrographs

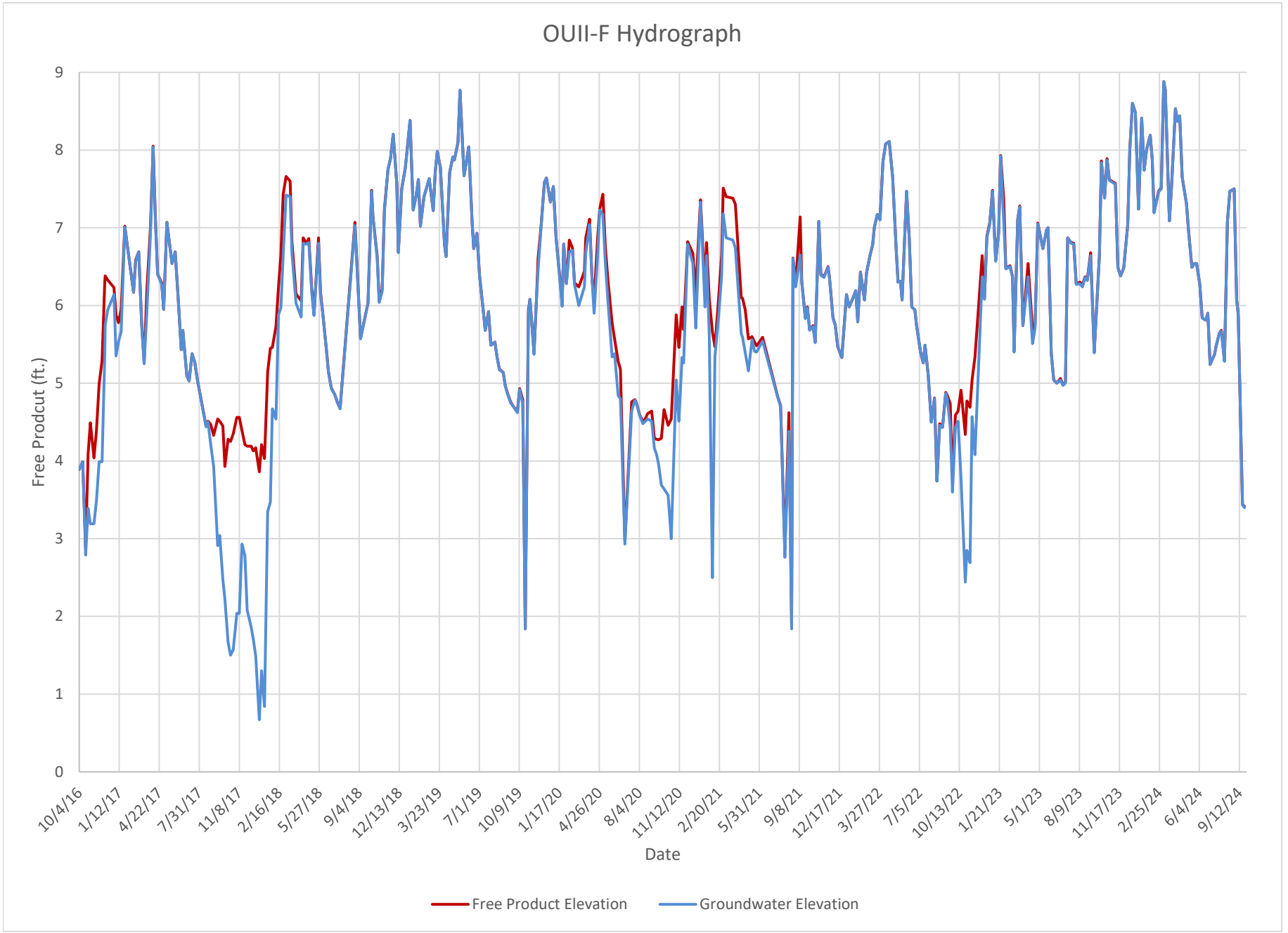

OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
Date
Free Product Elevation
Groundwater Elevation

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: OCTOBER 1, 2024 THROUGH DECEMBER 31, 2024

HARMON RAILROAD YARD
OPERABLE UNITS: OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between October 1, 2024 and December 31, 2024 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. [Note: Removal of free product was suspended subsequent to November 12, 2024 in preparation for transmissivity testing at the Site.] Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

A conference call to review the status of work completed at the Site was conducted with representatives from the New York State Department of Environmental Conservation (NYSDEC), TRC Engineering (TRC), Metro North Railroad (MNR), and Day Engineering, P.C. (DAY) on May 2, 2024. Based on discussions during this conference call, a work plan describing the activities proposed to evaluate Light Non-Aqueous Phase Liquid (LNAPL) at, and in the vicinity of, Harmon Yard OU-II L4 area was prepared, and this plan (2024 Work Plan) was sent to the NYSDEC on June 21, 2024. Subsequently, MNR contacted the adjacent property owners (i.e., Village of Harmon-on-Croton and Westchester County), provided a description of the proposed work to be completed on these adjacent properties, and requested access to complete this work. The Village of Harmon-on-Croton requested that MNR complete an access agreement, and this access agreement was prepared and sent to the Village of Harmon-on-Croton on June 12, 2024. Westchester County requested a directive from the NYSDEC, which was provided by the NYSDEC on September 5, 2024. On September 13, 2024, a Westchester County representative indicated in an email that some of the proposed test boring locations would be within feet of the landfill liner, or possibly on top of the liner. The proposed test borings were relocated from the berm/walking path to the southern edge of the roadway. Approval to complete the off-site test borings has not been received from the Village of Harmon-on-Croton or Westchester County at the time of preparation of this report.

Some of the activities associated with the 2024 Work Plan were conducted on November 12 and 13, 2024. Specifically, select monitoring wells (i.e., RW-1, VE4-5, FA4-8, FA4-9, FA4-12, FA4-13, FA4-

14, FA4-18, and PGW-2) were developed and free product was removed as an initial step in transmissivity testing.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on November 19, 2024 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and September 30, 2024) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between October 1, 2024 and December 31, 2024), and the preceding report period (i.e., between July 1, 2024 and September 30, 2024) is included as Figure 2.

A Geotech Product Recovery Canister (PRC) Passive Skimmer (i.e., a passive skimmer designed to recover product-only layers) was installed in well FA4-17 in the previous report period, and a belt skimmer was installed in well FA4-8 in May 2024. Both of these recovery systems were operational from October 1, 2024 to November 12, 2024 (i.e., when NAPL removal was suspended). Note: A portable Spill Buddy™ was previously used to remove free product from other wells containing sufficient amounts of free product; however, this system is also no longer functional. As a replacement of the Spill Buddy™, a peristaltic pump connected to a Heron Oil-Water interface probe is used to remove free product from other wells. Five additional Geotech PRC Passive Skimmers have been purchased and are expected to be installed in 2025.

A total of approximately 44.88 gallons of free product was removed from wells V4, AI2-3, FA4-8, FA4-9, FA4-14, FA4-16, and RW-1 during the current report period. The majority of the free product was removed from wells in the NAPL Area L4. The total amount of free product removed in the previous reporting period (i.e., between July 1, 2024 to September 30, 2024) was approximately 41.67 gallons. In a similar calendar period (i.e., between October 1, 2023 to December 31, 2023) 40.38 gallons were removed. Since January 1, 2013, approximately 5,276 gallons of free product or approximately 111 gallons per reporting period (i.e., every three months) have been removed from the Site.

The free product removed during the reporting period was placed in a 55-gallon drum, which is stored in a waste accumulation area. Samples were collected from four full 55-gallon drums on November 13, 2024, and submitted to York Analytical Laboratories, Inc. (York) for testing of polychlorinated biphenyls (PCBs). As presented in the report prepared by York (refer to Attachment B), PCBs were not detected at concentrations greater than 50 parts per million (ppm) in any of the four samples tested. Drums of free product were not removed from the Site for disposal in the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Between October 2, 2024 and October 4, 2024, groundwater samples were collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, and DAY-1 (i.e., as required by the long-term monitoring plan identified in the SMP, and a subsequent request of the NYSDEC to test for emerging contaminants in the groundwater samples collected from select wells). These samples were collected via low-flow sampling procedures. The groundwater samples were submitted to Hampton-Clarke Inc. (Hampton-Clarke) for testing of the following parameters:

- CP-51 Volatile Organic Compounds (VOCs) and chlorobenzene via United States Environmental Protection Agency (USEPA) method 8260
- Semi-Volatile Organic Compounds (SVOCs) and 2-methylnaphthalene via USEPA method 8270
- Polychlorinated Biphenyls (PCBs) via USEPA method 8082A
- Arsenic, chromium, copper, and lead via USEPA method 6020
- 1,4-Dioxane (monitoring wells VE1-4, VE2-1, and VE4-11) via USEPA method 8270 SIMs
- Per- & Polyfluorinated Alkyl Substances (PFAS) (monitoring wells VE1-4, VE2-1, and VE4-11) via USEPA draft method 1633

Note: SGS Laboratory Testing (SGS) completed the PFAS testing as a subcontractor to Hampton-Clarke.

A duplicate sample from monitoring well VE 4-11 (identified as VE4-61), MS/MSD, equipment blank, and trip blank (VOCs only) were also collected. The lab packages for the groundwater samples collected October 2-4, 2024 have been submitted for data validation. The results of this data validation will be submitted in a subsequent status report.

Between October 3, 2024 and October 5, 2024, free product/groundwater samples were also collected from six off-site monitoring wells (i.e., OUII-A through OUII-F) and five on-site monitoring wells (i.e., FA 4-9, FA4-16, PGW-2, VE 4-7, and VE 4-9). These samples were submitted under chain-of-custody control to Hampton-Clarke for testing of PCBs via USEPA method 8082A. These samples were collected using bailers from the upper portion of the water table without purging.

Test results for the groundwater and free product samples collected in October 2024 as well as those collected previously (i.e., between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023) per the requirements of the long-term monitoring plan, are summarized on Table 3 (volatile organic compounds), Table 4 (semi-volatile organic compounds), Table 5 (polychlorinated biphenyls), and Table 6 (metals). The applicable groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004 (TOGS 1.1.1) are also included on Table 3 through Table 6. The test results are discussed below.

- As shown on Table 3, VOCs were not detected in the groundwater samples collected in October 2024 from monitoring wells VE 1-2, VE 2-1, VE 4-11, and DAY-1. The sample collected from monitoring well VE 1-4 in October 2024 contained a concentration of toluene that exceeded the TOGS 1.1.1 groundwater standard. Toluene has not been detected previously in samples collected from monitoring well VE 1-4. The sample collected from monitoring well VE 3-1 in October 2024 contained concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and chlorobenzene that were below the TOGS 1.1.1 groundwater standards. The concentrations detected are consistent with those measured during previous sampling events. The sample collected from monitoring well DAY-1 in October 2024 contained concentrations of benzene and chlorobenzene that were below the TOGS 1.1.1 groundwater standards. The concentration of benzene detected in the samples collected in October 2024 is consistent with those measured during previous sampling events; however, chlorobenzene has not previously been detected in samples collected from monitoring well DAY-1.

- As shown on Table 4, SVOCs were not detected in the groundwater samples collected in October 2024 from monitoring wells VE 1-2, VE 1-4, VE 2-1, and VE 4-11. [Note: the reporting limit for several SVOCs (i.e., benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene) exceeded the TOGS 1.1.1 groundwater standard or guidance values.] The samples collected from monitoring wells VE 3-1 and DAY-1 in October 2024 contained detectable concentrations of one or more SVOCs (e.g., 2-methylnaphthalene, acenaphthene, fluoranthene, fluorene, phenanthrene, and pyrene) at concentrations below the TOGS 1.1.1 groundwater standards or guidance values. The SVOC concentrations detected in the samples collected in October 2024 are comparable to those measured during previous sampling events.

- As shown on Table 5, PCBs were not detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, DAY-1, FA 4-9, FA 4-16, VE 4-7, VE 4-9, OUII-C, OUII-D, and OUII-E in October 2024. PCBs were detected in the groundwater/free product samples collected from monitoring wells PGW-2, OUII-A, OUII-B, and OUII-F at concentrations that exceeded the TOGS 1.1.1 groundwater standard of 0.09 µg/L. Specifically, the concentrations of PCBs detected ranged from 4.7 µg/L detected in the sample collected from well PGW-2 to 55 µg/L detected in the sample collected from well

OUII-B. The concentrations of PCBs detected in the wells sampled in October 2024 are consistent with those measured during previous sampling events.

- As shown on Table 6, lead was detected in the groundwater sample collected from monitoring well VE 1-2 in October 2024. Arsenic, chromium, copper, and lead were detected in the groundwater sample collected from monitoring well DAY 1 in October 2024. The concentrations of arsenic, chromium, copper, and lead detected are below the TOGS 1.1.1 groundwater standards or guidance values. The concentrations of arsenic copper, lead, and chromium detected in the samples collected in October 2024 are consistent with those measured in samples collected/tested during previous sampling events.

The test results for the groundwater samples collected for emerging contaminant testing (i.e., PFAS and 1,4-Dioxane) are included in Table 7. The NYSDEC published a 2023 Addendum to TOGS 1.1.1 with guidance values for perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and 1,4-dioxane. These guidance values are included in Table 7. In addition, the NYSDEC document titled *Guidelines for Sampling and Analysis of PFAS* dated January 2020 states the following:

"PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt). In addition, further assessment of water may be warranted if either of the following screening levels are met:

a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or
b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L."

As shown on Table 7, the samples collected in October 2024 from wells VE 1-4 and VE 1-2 had concentrations of PFOA and PFOS that exceeded TOGS 1.1.1 guidance values. PFOA and PFOS were not detected in the sample collected from well VES 4-11 at concentrations greater than the laboratory method detection limit. No individual PFAS was detected at or above 100 ng/L and the total concentration of PFAS was less than 500 ng/L in the samples collected in October 2024. 1,4-Dioxane was not detected at concentrations greater than the laboratory method detection limit. [Note: Drinking water wells are not located in proximity to the Site.]

Copies of the analytical laboratory reports submitted by Hampton-Clarke and SGS for the samples collected in October 2024 are available upon request.

Note: The next groundwater sampling event is scheduled to be completed in June 2025. During the June 2025 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select

metals. Samples collected from monitoring wells VE1-4, VE2-1, and VE4-11 will also be tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and an equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.

Note: Copies of the laboratory packages received for the June 2025 sampling event will be submitted for data validation.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment A. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F, ranging in thickness between 0.01 ft. (monitoring well OUII-F) and 1.35 ft. (monitoring well MW-D). Free product was not recovered from off-site monitoring wells during the report period.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; and occasionally detected in off-site well OUII-C and OUII-E. As shown on Figure 3, the thickness of free product measured in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F during this period are comparable or higher to the thicknesses measured in previous report periods during a similar timeframe (i.e., October through December). [Note: The increased thicknesses of free product compared to previous report periods could be due to the suspension of free product removal in preparation of the transmissivity testing and/or potentially related to seasonal variations in groundwater levels.]

Hydrographs depicting the uncorrected groundwater elevation and free product elevation in each off-site monitoring well are provided in Attachment C.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

To date, free product has only been detected on three occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017; a reported thickness of 0.11 ft. on March 20, 2020; and, a reported thickness of 0.01 ft. on October 24, 2024). Free product was reportedly detected in well WB-9 on November 13, 2023 at a thickness of 0.01 ft. However, the validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North for 4.5 years prior to the October 24, 2024 monitoring event or subsequent to the October 24, 2024 monitoring event, and free product has not previously been detected in well WB-9 or subsequent to the detection reported on November 13, 2023).

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent bi-annual inspection of OU-I and OU-II was completed on October 3, 2024 by MNR. The following was noted during the inspection:

- There were cracks observed in the asphalt cover of OU-1. Sealing of cracks with asphalt sealer is ongoing, weather permitting.
- It was determined that repair of stick-up well AI 1-11 is required. Reportedly, the PVC was sheared at ground level.
- The drainage channel was clear.

The next bi-annual inspection is scheduled for April 2025. A copy of the inspection report and photographs taken during the inspection is included in Attachment D.

EMERGENCY OU-I AND OU-II INSPECTION: Emergency inspections of OU-I and OU-II were not required during the current report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between January 1, 2025 and March 31, 2025), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP, the transmissivity testing started in January 2025, and the revised monitoring schedule that will be submitted in the PRR due January 31, 2025). It is anticipated that free product will be removed from well FA4-17 using a Passive Skimmer, from well FA4-8 using a belt skimmer, and from remaining wells using a peristaltic pump. [Note: Five additional passive skimmers have been purchased for installation in OUII wells.] Free product removal will commence once transmissivity testing has been completed.

Note: Generally, if 0.5 ft. or more of free product is measured in on-site wells; it should be removed. If 1.0 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using the peristaltic pump or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB

concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

Monitoring well AI 1-11 should be repaired and secured by having the PVC cut flush and a j-plug secured at the top of the PVC casing.

The next OU-I/OU-II inspection is due on or about April 15, 2025. The next groundwater sampling and testing will be completed in June 2025. A SMP status report for the work completed during the upcoming period (i.e., January 1, 2025 through March 31, 2025) will be submitted in April 2025.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

Work described in the LNAPL Evaluation Work Plan will commence in 2025. The timetable for the completion of this work is dependent on receipt of approval from the adjacent property owners and the availability of contractors.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1: Free Product Removal Totals: July 1, 2024 through December 31, 2024
Table 2: Historic Free Product Removal Totals: December 1, 2012 through June 30, 2024
Table 3: Summary of VOCs: Groundwater Samples
Table 4: Summary of SVOCs: Groundwater Samples
Table 5: Summary of PCBs: Groundwater Samples
Table 6: Summary of Metals: Groundwater Samples
Table 7: Summary of Emerging Contaminants: Groundwater Samples
Table 8: Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1: Groundwater Contour Map: November 2024
Figure 2: Summary of Free Product Removal for the Report Periods October 1, 2024 – December 31, 2024 and July 1, 2024 – September 30, 2024
Figure 3: Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A: Well Monitoring Logs and Free Product Removal Records: October 1, 2024 – December 31, 2024
Attachment B: Analytical Laboratory Reports
Attachment C: Off-Site Monitoring Well Hydrographs
Attachment D: Inspection Report

TABLES

Table 1

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

Free Product Removal Totals
Current Report Period: October 1, 2024 through December 31, 2024

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	1
Total	**1**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3	3.5
VE2-1	0
Total	**3.5**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	6
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	0
FA4-13	0
FA4-14	3.75
FA4-15	0
FA4-16	0.88
FA4-17**	0
FA4-18	0
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	27.75
VE4-1	0
VE4-5	2
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**40.38**

NM = Not measured
Free product was removed from majority of wells using a peristaltic pump
*Free product was removed using a belt skimmer
**Free product was removed using a Geotech product only bailer

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - September 30, 2024

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	168.94
Total	**198.435**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	26.79
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**36.782**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1086.43
VE2-1	0
Total	**1088.06**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	637.01
FA4-9	4.98
FA4-10	0.13
FA4-11	160.47
FA4-12	13.67
FA4-13	101.8
FA4-14	315.69
FA4-15	87.79
FA4-16	76.56
FA4-17	95
FA4-18	126.91
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1978.11
VE4-1	0
VE4-5	245.92
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3890.81**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

Free product was removed from other locations using a portable Spill Buddy™

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																														
		VE 1-2																VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP	10/2/24
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87]	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87]	ND [0.53]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	**16**
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																														
		VE 2-1																VE 3-1														
			9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	6/3/2020	8/25/21	8/11/22	3/9/23	10/2/24	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50	1.2
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.20	1.3
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND 0.50	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40	1.2
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.53]
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	1.0	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date																													
		VE 4-11																	DAY 1												
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]	0.64
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	1.2
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.53]	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.53]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date																				
		Field Blank											Trip Blank									
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	10/4/24	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23	10/3/24
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.50]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]	ND [0.50]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.53]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87]	ND [0.53]
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]	ND [1.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								VE 1-2									VE 1-4																							VE 2-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	C030320233DUP	10/2/2024	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23	10/2/24
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.1]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.1]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.1]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.1]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.1]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.1]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	0.133	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.1]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.1]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.1]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [2.1]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]	**ND [2.1]**
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]	ND [0.53]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.52]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.1]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50]	ND [1.40]	ND [1.90]	12	10	ND [2.0]	ND [2.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.1]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date							VE 3-1							VE 4-11														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24	3/27/12	9/11/12	11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	8/24/2021	8/11/2022	3/9/23	10/3/24	DUP
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.2]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [6.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.2]**	**ND [2.2]**
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.2]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [6.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.2]**	**ND [2.2]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.2]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [6.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.2]**	**ND [2.2]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.2]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [6.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.2]**	**ND [2.2]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	**ND [2.2]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [6.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	**ND [2.2]**	**ND [2.2]**
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.54]	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [6.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.55]	ND [0.54]
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50]	ND [1.40]	9.30	4.40	ND [2.2]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.2]	ND [2.2]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																															
		DAY 1																Field Blank																																		
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023	10/4/2024																							
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]																							
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1	11	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]																							
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]																							
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]																							
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**																							
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]																							
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**																							
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]																							
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**																							
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]																							
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.

Table 4 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**	**ND [2.20]**
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**	**ND [2.00]**
Chrysene	0.002	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**	**ND [2.30]**
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**	**ND [2.60]**
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																										
		VE 1-2																VE 1-4																				VE 2-1							
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	10/3/24	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23	10/2/2024
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0991]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.099]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [1.3]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND	ND [0.513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND	ND [0.513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																										
		VE 3-1																VE 4-11																												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP														
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.14]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.25]														
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND	ND	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND	ND	ND														

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																																										
		DAY 1														Field Blank																														
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022	10/4/2024																				
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]	ND [0.25]																				
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]	ND [0.25]																				
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]	ND [0.25]																				
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]	ND [0.25]																				
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]	ND [0.25]																				
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]	ND [0.25]																				
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]	ND [0.25]																				
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.0097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]	ND [0.25]																				
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]	ND [0.25]																				
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]	ND [0.25]																				

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																						
		OUII-A				OUII-B			OUII-C				OUII-D				OUII-E				OUII-F			
		8/24/21	8/10/22	3/8/23	10/4/24	8/10/22	3/8/23	10/5/24	8/24/21	8/10/22	3/8/23	10/4/24	8/24/21	8/10/22	3/8/2022*	10/4/24	8/24/21	8/10/22	3/8/23	10/4/24	8/24/21	8/10/22	3/8/23	10/4/24
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1254	NS	14.7 D	66	33	28	28	7	54	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	8.30 P	0.61	2.3	ND [0.25]	ND [0.12]	0.36	ND [0.25]	ND [0.25]	2.00 P	4.8	7.5	9.0
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.50]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.25]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.25]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.50]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**28**	**7**	**54**	ND	ND	ND	ND	**8.3**	**0.61**	**2.3**	ND	ND	**0.36**	ND [0.25]	ND	**2**	**4.8**	**7.5**	**9.0**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																			
		FA4-9				FA4-11	FA4-16				PGW-2			VE4-7				VE4-9			
		8/26/21	8/10/22	3/8/2023*	10/3/24	8/24/21	8/24/21	8/10/22	3/8/2023*	10/3/24	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	10/3/24	8/24/21	8/10/22	3/8/23	10/3/24
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.13]	ND [0.13]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.13]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.14]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.17]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1254	NS	ND [0.12]	140	30	ND [0.50]	0.89 P	10	67	34E	ND [1.3]	2.1	4.2	4.7	0.35 JP	3.7	47	ND [1.3]	ND [0.12]	17	52	ND [1.3]
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.11]	ND [0.11]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.11]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.12]	ND [1.3]	ND [2.5]	ND [1.3]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.50]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [1.3]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [1.3]	ND [0.16]	ND [1.3]	ND [2.5]	ND [1.3]
Total PCBs	0.09	ND	**140**	**30**	**ND**	**0.89**	**10**	**67**	**34**	ND	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	ND	**17**	**52**	**ND**

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Value higher than laboratory method detection limit but below laboratory reporting limit

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date																																	
		VE 1-2																VE 1-4																		
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23	10/3/24	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	03022023DUP	10/2/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]	ND [2.0]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	29	160	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J	5.31 J	22.3	22.3	34	16	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]	3.6	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date															VE 3-1												
		VE 2-1																											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23	10/2/24	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	10/4/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [2.0]	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [10]	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0]	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33	3.9	ND [3.0]

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date																															
		VE 4-11																DAY 1																
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23	10/2/24
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [2.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9	11
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J	16	ND [10]	33
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3.0]	ND [3.0]	ND [3.0]	ND [3.0]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]	16

Compound	Groundwater Standard or Guidance Value[1]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	10/4/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]	ND [2.0]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]	ND [3.0]	ND [3.0]	ND [3.0]

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration
N = Indicates the spiked sample recovery is not within control limits
* = Indicates that the duplicate analysis is not within control limits
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 6 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																				
		VE 1-2	VE 1-4										VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	10/2/24	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23	10/2/24
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	8.2	7.72	7.35	8.2	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]	5.1
Perfluorooctanoic acid (PFOA)	6.7	5.2	**29**	**50**	**51.3**	**15**	**44**	**43**	**12.3**	**7.01**	**6.16**	**14.6**	**7.7**	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	**6.9**	**23**	**7.3**	0.844 J	**7.1**
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	1.4	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]	1.8 J
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	ND [2.2]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]	ND [2.1]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [2.2]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]	ND [2.1]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [2.2]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]	ND [2.1]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [2.2]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.32]	ND [2.1]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	ND [2.2]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.23]	ND [2.1]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	4.30	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79	10.1
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [2.2]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]	ND [2.1]
Perfluorooctanesulfonic acid (PFOS)	2.7	**37**	**62**	**43**	**63.3**	**34**	**71**	**73**	**55.5**	**24.1**	**22.7**	**9.8**	**55**	16	**21**	**42.9**	**38.2**	**56**	**60**	**81**	**60.5**	**33.5**	**32.5**
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8]	ND [2.35]	ND [2.38]	ND [2.2]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]	ND [2.1]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	ND [8.6]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18]	ND [1.57]	ND [2.1]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	10.9	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]	14
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	11.6	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J	4.2
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	9.7	6.84	7.64	7.9	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42	4.8	0.803 J	2.1
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	7.80	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J	1.9
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	ND [8.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5]	ND [4.5]	ND [1.7]	ND [7.1]	ND [1.89]	ND [8.5]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	ND [8.6]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]	ND [7.1]	ND [3.65]	ND [8.5]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	ND [2.2]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]	ND [2.1]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	ND [2.2]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]	ND [2.1]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	24.4	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344	39.6
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	55.5	56.5	57.5	11.6	24	3.4	5.4	0	0	11	14	100	60.5	8.79	14
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	76.50	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888	78.8
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		ND [100]]	NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																				
		VE 3-1	VE 4-11									DAY 1	Field Blank					Trip Blank	Equipment Blank			
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	10/3/24	DUP	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23	10/3/24
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [8.9]	ND [1.28]	ND [2.1]	ND [2.1]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]	ND [2.1]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 JI	ND [1.8]	ND [0.758]	ND [2.1]	ND [2.1]	**18**	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]	ND [2.1]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	ND [2.1]	ND [2.1]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]	ND [2.1]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [2.1]	ND [2.1]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]	ND [2.1]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [2.1]	ND [2.1]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]	ND [2.1]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [2.1]	ND [2.1]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]	ND [2.1]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.34]	ND [2.1]	ND [2.1]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]	ND [2.1]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.25]	ND [2.1]	ND [2.1]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]	ND [2.1]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	6.1	ND [2.1]	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]	ND [2.1]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [2.1]	ND [2.1]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]	ND [2.1]
Perfluorooctanesulfonic acid (PFOS)	2.7	**14**	**7.2**	**4.2**	ND [10]	**5.2**	**6.1 I**	**6.6**	ND [1.48]	ND [2.1]	ND [2.1]	**16**	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]	ND [2.1]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [2.1]	ND [2.1]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]	ND [2.1]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18]	ND [1.59]	ND [2.1]	ND [2.1]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]	ND [2.1]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	ND [8.5]	ND [8.5]	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]	ND [8.4]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	ND [4.2]	ND [4.2]	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]	ND [4.2]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [8.9]	0.731 J	ND [2.1]	ND [2.1]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]	ND [2.1]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [2.1]	ND [2.1]	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]	ND [2.1]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	ND [7.1]	ND [1.91]	ND [8.5]	ND [8.5]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]	ND [8.4]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	ND [7.1]	ND [3.70]	ND [8.5]	ND [8.5]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]	ND [8.4]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	ND [2.1]	ND [2.1]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]	ND [2.1]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [3.6]	ND [1.86]	ND [2.1]	ND [2.1]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	ND [1.91]	ND [2.1]
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	ND	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	6.1	ND	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	16	16	6.1	ND	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [110]	ND [110]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]			ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

[1] Per-and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* , dated January 2021

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

*- = LCS and/or LCSD is outside acceptance limits, low biased

Samples collected prior to 2023 were analyzed via USEPA method 537M

Samples collected in 2023 & 2024 were analyzed via draft USEPA method 1633

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28

Note:
Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

Table 8 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04
July 1, 2023 - September 30, 2023	Depth to Static Water Level	8.01-9.02	7.62-8.78	7.31-8.80	8.02-10.14	8.21-9.25	4.62-6.48
	Range of Free Product Thickness (ft.)	0-0.21	0-0.67	0	0.20-1.67	0-0.01	0-0.04
	Average Free Product Thickness (ft.)	0.03	0.095	0.000	0.97	0.0008	0.013
October 1, 2023 - December 31, 2023	Depth to Static Water Level	6.72-8.15	6.60-7.91	5.91-8.49	7.29-8.16	7.43-8.15	2.89-5.11
	Range of Free Product Thickness (ft.)	0-0.19	0.01-0.24	0	0.32-1.90	0-0.12	0-0.02
	Average Free Product Thickness (ft.)	0.12	0.072	0	1.29	0.011	0.006
January 1, 2024 - March 31, 2024	Depth to Static Water Level	6.34-7.55	6.84-8.30	5.60-7.00	8.23-10.05	6.99-7.95	2.61-4.40
	Range of Free Product Thickness (ft.)	0-0.01	0.42-1.33	0	1.64-3.66	0-0.01	0-0.01
	Average Free Product Thickness (ft.)	0.002	0.890	0	2.40	0.002	0.002
April 1, 2024 - June 30, 2024	Depth to Static Water Level	6.65-8.00	6.37-7.88	6.08-8.49	6.87-8.03	6.61-8.12	2.96-5.68
	Range of Free Product Thickness (ft.)	0	0.50-1.49	0	1.48-2.63	0-0.01	0
	Average Free Product Thickness (ft.)	0	0.85	0	1.94	0.001	0
July 1, 2024 - September 30, 2024	Depth to Static Water Level	7.49-8.64	7.22-8.47	7.30-8.52	7.59-8.53	7.77-8.74	3.99-8.08
	Range of Free Product Thickness (ft.)	0	0-1.11	0	0.21-1.21	0	0-0.01
	Average Free Product Thickness (ft.)	0	0.21	0	0.85	0	0.005
October 1, 2024 - December 31, 2024	Depth to Static Water Level	8.13-9.28	8.19-9.15	7.68-9.22	8.58-9.38	8.39-9.42	5.07-6.95
	Range of Free Product Thickness (ft.)	0-0.54	0-1.26	0	0.68-1.90	0	0-0.06
	Average Free Product Thickness (ft.)	0.26	0.65	0	1.35	0	0.13

Note:

Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:

Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) – 0.85 x Measured Free Product Thickness (ft.)

FIGURES

NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- AI1-12 (3.16 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made November 2024
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 5.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

N

0 40 80 160 Feet

PROJECT MANAGER	RLK
DATE	01-2025
DRAWN BY	CPS
DATE DRAWN	01-2025
SCALE	As Noted
DATE ISSUED	01-14-2025

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

PERIODIC REVIEW REPORT

Drawing Title
Groundwater Contour Map: November 2024

Project No.
24-3717M

FIGURE 1

Last Date Saved: 1/24/2025 1:31 PM
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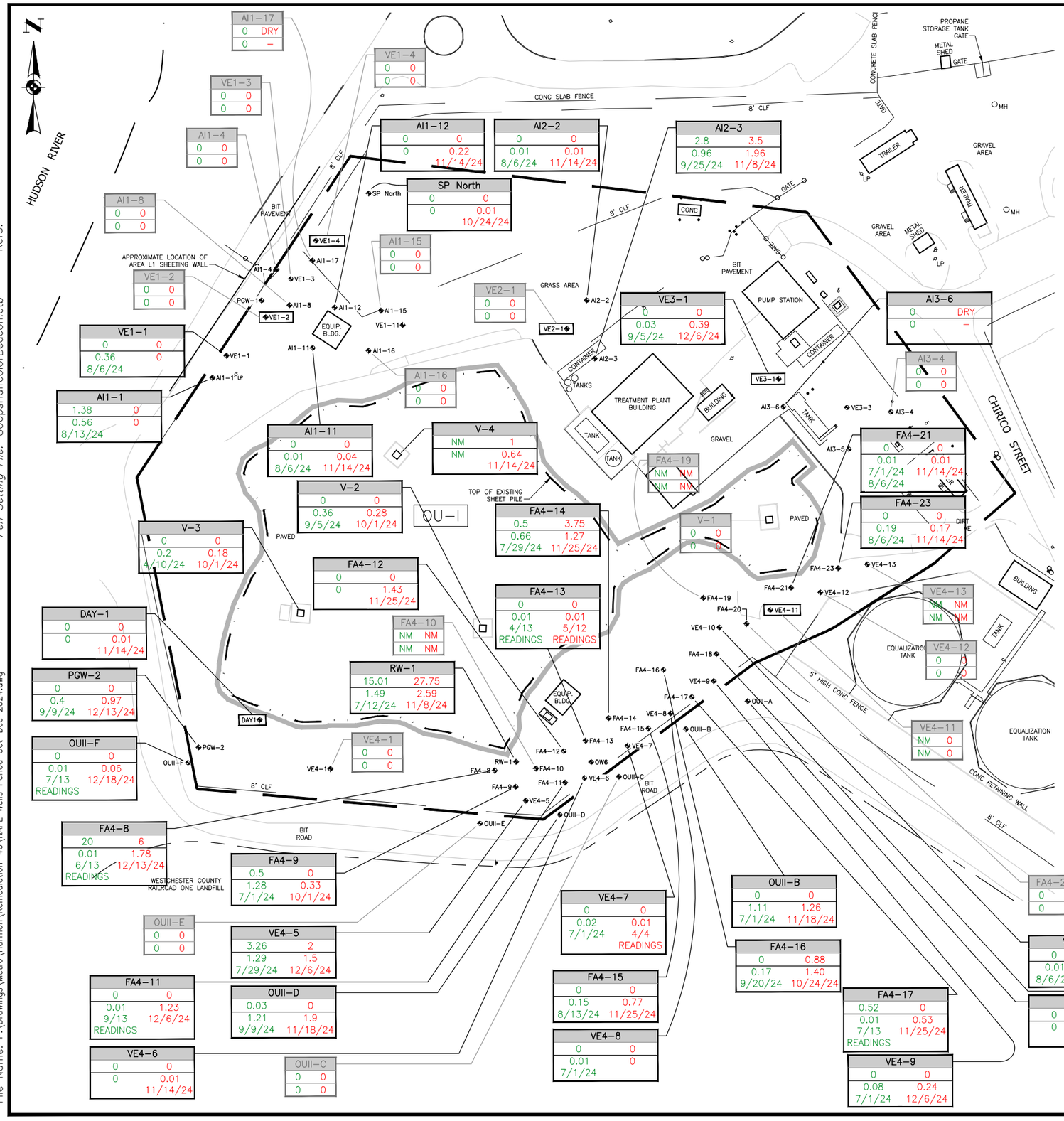


SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- VE1-3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1-2 — Long-Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- Extent Of OU-I Final Cover System
- OU-II Boundary
- V-1 — OU-I Contingency Vapor Extraction System Wells
- FA4-14 / 0.5 3.75 / 0.66 7/29/24 1.27 11/25/24 — Long-Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement

Measurements Made During The Report Period July 1, 2024 Through September 30, 2024 Shown In Green (Left)

Measurements Made During The Report Period October 1, 2024 Through December 31, 2024 Shown In Red (Right)

NM — Well Not Measured

ND — Not Detected

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	1/2025
DATE DRAWN	1/9/2025
DATE ISSUED	1/9/2025

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods July - September 2024 and October - December 2024

PROJECT NO.
24-3717M

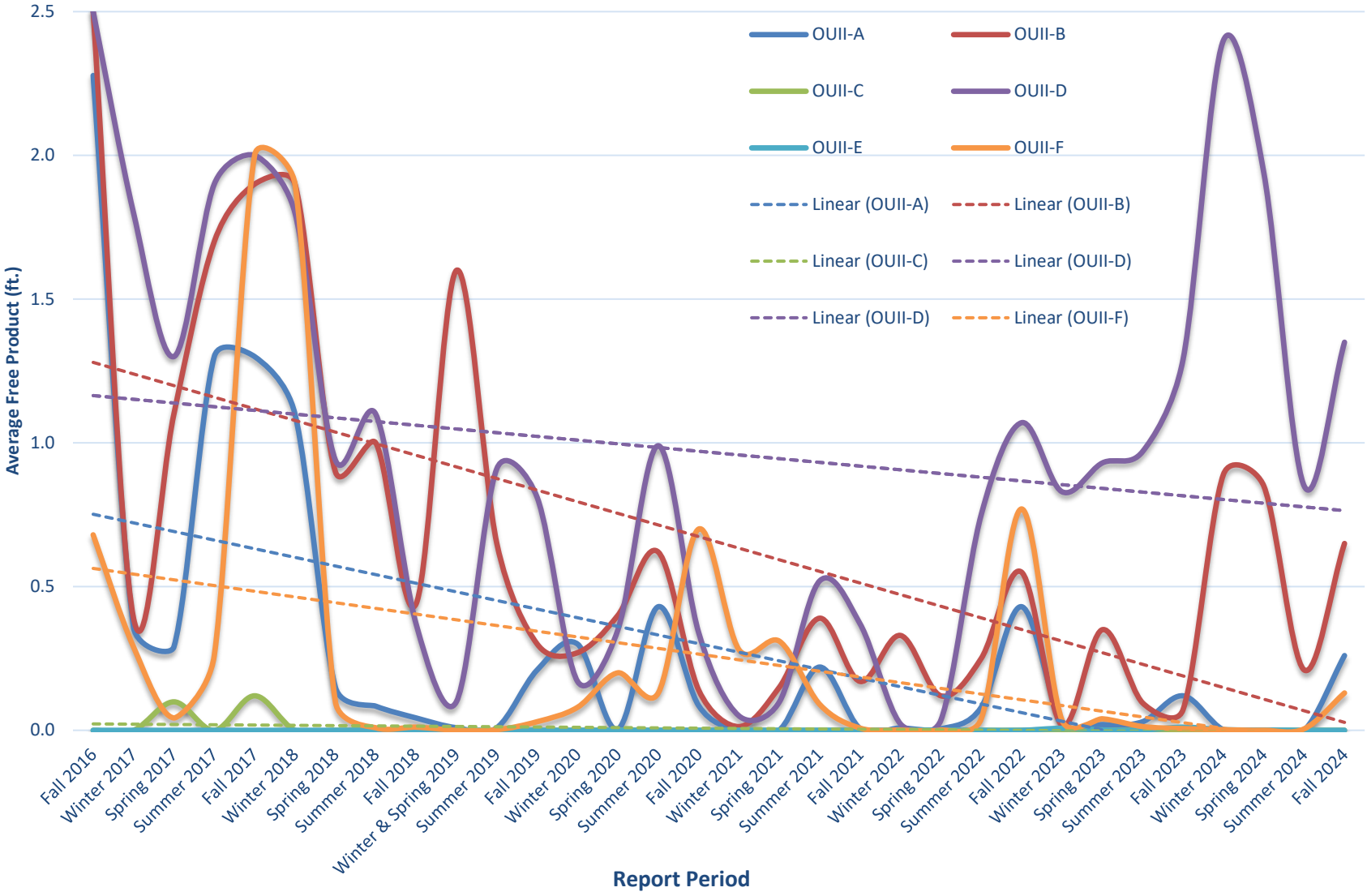
FIGURE 2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb

Time Plotted: Thursday, January 9, 2025 7:16:54 AM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period Oct-Dec 2024.dwg

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records

October 1, 2024 through December 30, 2024

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	-	13.65	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.04	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.13	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	16.03	0	0	
11/8/2024	-	16.45	0	0	
11/14/2024	-	16.55	0	0	
11/18/2024	-	16.58	0	0	
11/25/2024	-	16.58	0	0	
12/6/2024	-	16.74	0	0	
12/13/2024	-	16.69	0	0	
12/18/2024	-	16.73	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	16.93	17.21	0.28	0	
11/8/2024	17.55	17.56	0.01	0	
11/14/2024	17.55	17.56	0.01	0	
12/6/2024	17.54	17.56	0.02	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	16.55	16.73	0.18	0	
11/8/2024	17.28	17.42	0.14	0	
11/14/2024	17.42	17.5	0.08	0	
12/6/2024	17.28	17.29	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	15.8	16.2	0.4	0	
10/10/2024	15.91	16.14	0.23	0	
10/14/2024	16.01	16.39	0.38	0	
10/24/2024	16.21	16.85	0.64	1	
10/30/2024	16.35	16.64	0.29	0	
11/8/2024	16.55	16.95	0.4	0	
11/14/2024	16.66	17.3	0.64	0	
11/18/2024	16.59	16.78	0.19	0	
11/25/2024	16.41	16.66	0.25	0	
12/6/2024	16.55	16.88	0.33	0	
12/13/2024	16.63	16.72	0.09	0	
12/18/2024	16.39	16.62	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	11.62	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	10.82	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	14.71	14.75	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	17.55	17.77	0.22	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	15.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.7	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	-	-	0	12.61 dry

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	9.18	0	0	
10/10/2024	-	9.15	0	0	
10/14/2024	-	9.45	0	0	
10/24/2024	9.71	9.72	0.01	0	
10/30/2024	-	9.93	0	0	
11/8/2024	-	9.95	0	0	
11/14/2024	-	10.12	0	0	
11/18/2024	-	9.61	0	0	
11/25/2024	-	9.94	0	0	
12/6/2024	-	10.15	0	0	
12/13/2024	-	10.12	0	0	
12/18/2024	-	9.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	9.21	9.9	0.69	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	10.01	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	9.17	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	10.71	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	9.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	15.55	15.56	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/1/2024	15.25	15.61	0.36	0	
10/10/2024	15.41	15.82	0.41	0	
10/14/2024	15.35	15.72	0.37	0	
10/24/2024	15.45	16.66	1.21	1.5	
10/30/2024	15.61	15.99	0.38	0	
11/8/2024	15.6	17.56	1.96	2	
11/14/2024	15.65	17.28	1.63	0	
11/18/2024	15.64	17.39	1.75	0	
11/25/2024	15.69	17.25	1.56	0	
12/6/2024	15.84	17.46	1.62	0	
12/13/2024	15.74	16.94	1.2	0	
12/18/2024	15.53	16.53	1	0	

Casing of Spill Buster is reportedly cracked and no longer functional.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	11.66	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	11.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/6/2024	Dry at 16.5 ft.				

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	11.21	11.26	0.05	0	
11/8/2024	11.75	11.95	0.2	0	
11/14/2024	11.69	11.84	0.15	0	
12/6/2024	11.76	12.15	0.39	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	17.24	17.25	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/1/2024	-	16.45	0	0	drum 1.1
10/10/2024	-	16.63	0	0	drum 1.05
10/14/2024	-	16.59	0	0	drum 1.06
10/24/2024	-	16.96	0	0	drum 1.17
10/30/2024	-	16.97	0	0	drum 1.26
11/8/2024	-	17.1	0	0	drum 1.43
11/14/2024	17.01	17.02	0.01	0	bottom 20.11
11/18/2024	17.01	17.65	0.64	0	
11/25/2024	16.95	17.11	0.16	0	
12/6/2024	17.12	18.51	1.39	0	
12/13/2024	16.76	18.51	1.75	0	
12/18/2024	16.64	17.43	0.79	0	

Belt skimmer installed in well. Height of drum is assumed to be approximately 3.0 ft and equal to approximately 55 gallons. Approximately 6.0 gallons of ree product removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	8.11	8.44	0.33	0	
11/8/2024	8.81	9.05	0.24	0	
11/14/2024	-	8.98	0	0	
11/18/2024	8.82	8.83	0.01	0	
11/25/2024	9.05	9.06	0.01	0	
12/6/2024	9.24	9.25	0.01	0	
12/13/2024	8.88	8.89	0.01	0	
12/18/2024	8.61	8.62	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	11.5	11.51	0.01	0	
10/10/2024	11.65	11.66	0.01	0	
10/14/2024	11.74	11.75	0.01	0	
10/24/2024	11.81	11.82	0.01	0	
10/30/2024	11.85	11.94	0.09	0	
11/8/2024	11.95	12.19	0.24	0	
11/14/2024	11.95	12.41	0.46	0	
11/18/2024	11.98	12.66	0.68	0	
11/25/2024	11.88	13.09	1.21	0	
12/6/2024	12.05	13.28	1.23	0	
12/13/2024	11.69	12.59	0.9	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	14.79	15.02	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	10.92	0	0	
10/10/2024	-	11.09	0	0	
10/14/2024	11.15	11.16	0.01	0	
10/24/2024	11.18	11.19	0.01	0	
10/30/2024	-	11.31	0	0	
11/8/2024	11.35	11.36	0.01	0	
11/14/2024	-	14.42	0	0	
11/18/2024	-	11.5	0	0	
11/25/2024	11.43	11.44	0.01	0	
12/6/2024	-	11.61	0	0	
12/13/2024	-	11.18	0	0	
12/18/2024	10.88	10.89	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	13.28	14.15	0.87	0.75	
10/10/2024	13.43	13.86	0.43	0	
10/14/2024	13.48	13.79	0.31	0	
10/24/2024	13.65	14.08	0.43	0	
10/30/2024	13.64	14.45	0.81	1	
11/8/2024	13.61	14.65	1.04	2	
11/14/2024	13.85	13.95	0.1	0	
11/18/2024	13.61	14.34	0.73	0	
11/25/2024	13.75	15.02	1.27	0	
12/6/2024	13.81	14.92	1.11	0	
12/13/2024	13.64	14.22	0.58	0	
12/18/2024	13.43	13.63	0.2	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	10.31	10.35	0.04	0	
10/10/2024	10.45	10.56	0.11	0	
10/14/2024	10.52	10.8	0.28	0	
10/24/2024	10.68	10.78	0.1	0	
10/30/2024	10.71	10.84	0.13	0	
11/8/2024	10.75	11.11	0.36	0	
11/14/2024	10.82	11.22	0.4	0	
11/18/2024	10.84	11.38	0.54	0	
11/25/2024	10.76	11.53	0.77	0	
12/6/2024	10.88	11.51	0.63	0	
12/13/2024	10.58	10.94	0.36	0	
12/18/2024	-	10.44	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	14.41	14.45	0.04	0	
10/10/2024	14.61	14.74	0.13	0	
10/14/2024	14.61	14.95	0.34	0	
10/24/2024	14.68	16.08	1.4	0	
10/30/2024	14.71	15.42	0.71	0.88	
11/8/2024	14.75	15.1	0.35	0	
11/14/2024	14.84	15.78	0.94	0	
11/18/2024	14.93	15.75	0.82	0	
11/25/2024	14.82	15.95	1.13	0	
12/6/2024	15.04	15.79	0.75	0	
12/13/2024	14.68	15.51	0.83	0	
12/18/2024	14.57	14.58	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	10.55	10.56	0.01	0	drum 2.95
10/10/2024	-	10.85	0	0	drum 2.95
10/14/2024	-	11	0	0	
10/24/2024	10.93	10.96	0.03	0	
10/30/2024	10.91	10.95	0.04	0	
11/8/2024	11	11.15	0.15	0	
11/14/2024	11.18	11.21	0.03	0	
11/18/2024	11.04	11.35	0.31	0	
11/25/2024	11.01	11.54	0.53	0	
12/6/2024	11.16	11.61	0.45	0	
12/13/2024	10.83	11.14	0.31	0	
12/18/2024	10.61	10.62	0.01	0	

Spill Buster™formerly located in well, removed in 2020. Geotech product only bailer installed in July 2024.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	12.9	13.06	0.16	0	
10/10/2024	13.08	13.11	0.03	0	
10/14/2024	13.19	13.39	0.2	0	
10/24/2024	13.24	13.46	0.22	0	
10/30/2024	13.26	13.45	0.19	0	
11/8/2024	13.35	13.55	0.2	0	
11/14/2024	13.42	13.43	0.01	0	
11/18/2024	13.52	13.64	0.12	0	
11/25/2024	13.38	13.91	0.53	0	
12/6/2024	13.48	14.03	0.55	0	
12/13/2024	13.26	13.61	0.35	0	
12/18/2024	13.03	13.14	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	13.36	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	13.51	0	0	
11/8/2024	-	14.25	0	0	
11/14/2024	14.03	14.04	0.01	0	
12/6/2024	-	14.71	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	13.05	13.06	0.01	0	
11/8/2024	13.52	13.55	0.03	0	
11/14/2024	13.58	13.75	0.17	0	
12/6/2024	13.95	13.96	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	6.98	6.99	0.01	0	
10/10/2024	6.95	6.97	0.02	0	
10/14/2024	9.78	9.85	0.07	0	
10/24/2024	9.42	9.5	0.08	0	
10/30/2024	7.48	7.51	0.03	0	
11/8/2024	7.62	8.05	0.43	0	
11/14/2024	7.61	7.99	0.38	0	
11/18/2024	7.54	8.01	0.47	0	
11/25/2024	7.51	8	0.49	0	
12/6/2024	7.61	8.35	0.74	0	
12/13/2024	6.78	7.75	0.97	0	
12/18/2024	6.18	6.72	0.54	0	

Table 2

Harmon Railroad Yard
OU I and OU II
Westchester County, New York
Site No. 3-60-010

Metro-North Railroad - Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
10/1/2024	14.50	16.45	1.95	4	
10/10/2024	14.82	15.81	0.99	4.5	
10/14/2024	14.63	16.6	1.97	4.25	
10/24/2024	14.75	17.01	2.26	4.5	
10/30/2024	14.76	17.33	2.57	5.25	
11/8/2024	14.85	17.44	2.59	5.25	
11/14/2024	14.94	16.52	1.58	0	
11/18/2024	14.99	17.14	2.15	0	
11/25/2024	14.99	17.50	2.51	0	
12/6/2024	15.18	17.31	2.13	0	
12/13/2024	14.88	16.51	1.63	0	
12/18/2024	14.74	15.26	0.52	0	

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.65 ft and equal to approximately 55 gallons. Comment on 6/25/2024 stated 'drum 0.75 ft'. Approximately ~ gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	9.76	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	9.55	9.75	0.2	0	
10/10/2024	9.81	9.99	0.18	0	
10/14/2024	9.85	10.11	0.26	0	
10/24/2024	9.89	10.29	0.4	0	
10/30/2024	9.82	10.51	0.69	1	
11/8/2024	10.05	10.91	0.86	1	
11/14/2024	10.02	10.03	0.01	0	
11/18/2024	10.05	10.66	0.61	0	
11/25/2024	10.05	11.26	1.21	0	
12/6/2024	10.15	11.65	1.5	0	
12/13/2024	9.76	10.96	1.2	0	
12/18/2024	9.66	10.54	0.88	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	8.81	8.82	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	7.78	7.79	0.01	0	
11/8/2024	8.23	8.24	0.01	0	
11/14/2024	8.35	8.36	0.01	0	
12/6/2024	8.38	8.39	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	8.99	0	0	
11/8/2024	-	8.6	0	0	
11/14/2024	-	8.68	0	0	
12/6/2024	-	8.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	8.40	8.41	0.01	0	
11/8/2024	8.85	8.96	0.11	0	
11/14/2024	8.91	9.05	0.14	0	
12/6/2024	8.94	9.18	0.24	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	13.02	13.11	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/14/2024	-	14.32	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	8.71	0	0	
10/10/2024	-	8.75	0	0	
10/14/2024	8.85	9.08	0.23	0	
10/24/2024	8.95	9.45	0.5	0	
10/30/2024	9.00	9.54	0.54	0	
11/8/2024	9.12	9.52	0.4	0	
11/14/2024	9.20	9.45	0.25	0	
11/18/2024	9.20	9.68	0.48	0	
11/25/2024	9.20	9.55	0.35	0	
12/6/2024	9.23	9.55	0.32	0	
12/13/2024	8.93	8.98	0.05	0	
12/18/2024	8.13	8.14	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	8.61	8.91	0.30	0	
10/10/2024	8.65	8.92	0.27	0	
10/14/2024	8.44	8.81	0.37	0	
10/24/2024	8.54	9.16	0.62	0	
10/30/2024	8.77	9.75	0.98	0	
11/8/2024	8.85	9.85	1.00	0	
11/14/2024	8.95	10.00	1.05	0	
11/18/2024	8.95	10.21	1.26	0	
11/25/2024	9.00	9.99	0.99	0	
12/6/2024	8.85	9.83	0.98	0	
12/13/2024	-	8.59	0	0	
12/18/2024	-	8.19	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	8.6	0	0	
10/10/2024	-	8.69	0	0	
10/14/2024	-	8.45	0	0	
10/24/2024	-	8.54	0	0	
10/30/2024	-	9	0	0	
11/8/2024	-	9.11	0	0	
11/14/2024	-	8.94	0	0	
11/18/2024	-	9.04	0	0	
11/25/2024	-	8.99	0	0	
12/6/2024	-	9.22	0	0	
12/13/2024	-	8.51	0	0	
12/18/2024	-	7.68	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	8.41	9.55	1.14	0	
10/10/2024	8.45	9.81	1.36	0	
10/14/2024	8.55	9.76	1.21	0	
10/24/2024	8.71	10.06	1.35	0	
10/30/2024	9.14	10.74	1.6	0	
11/8/2024	8.85	10.45	1.6	0	
11/14/2024	8.82	10.25	1.43	0	
11/18/2024	8.85	10.75	1.9	0	
11/25/2024	8.91	10.45	1.54	0	
12/6/2024	9.09	10.71	1.62	0	
12/13/2024	8.81	9.49	0.68	0	
12/18/2024	8.47	9.18	0.71	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	-	8.72	0	0	
10/10/2024	-	8.74	0	0	
10/14/2024	-	9	0	0	
10/24/2024	-	9.11	0	0	
10/30/2024	-	9.06	0	0	
11/8/2024	-	9.25	0	0	
11/14/2024	-	9.13	0	0	
11/18/2024	-	9.22	0	0	
11/25/2024	-	9.31	0	0	
12/6/2024	-	9.42	0	0	
12/13/2024	-	9.08	0	0	
12/18/2024	-	8.39	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/1/2024	6.14	6.15	0.01	0	
10/10/2024	6.21	6.22	0.01	0	
10/14/2024	6.36	6.37	0.01	0	
10/24/2024	6.55	6.56	0.01	0	
10/30/2024	6.91	6.92	0.01	0	
11/8/2024	6.75	6.76	0.01	0	
11/14/2024	6.71	6.72	0.01	0	
11/18/2024	6.72	6.73	0.01	0	
11/25/2024	-	6.95	0	0	
12/6/2024	6.81	6.82	0.01	0	
12/13/2024	-	5.81	0	0	
12/18/2024	5.06	5.12	0.06	0	

ATTACHMENT B

Analytical Laboratory Report

Technical Report

prepared for:

Metro North Commuter Railroad
525 North Broadway, White Plains, NY.
White Plains NY, 10603
Attention: Tom Roszak

Report Date: 11/19/2024
Client Project ID: Harmon Well
York Project (SDG) No.: 24K1129

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/19/2024
Client Project ID: Harmon Well
York Project (SDG) No.: 24K1129

Metro North Commuter Railroad
525 North Broadway, White Plains, NY.
White Plains NY, 10603
Attention: Tom Roszak

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 14, 2024 and listed below. The project was identified as your project: **Harmon Well**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24K1129-01	Harmon Well RW1 A	Oil	11/13/2024	11/14/2024
24K1129-02	Harmon Well RW1 B	Oil	11/13/2024	11/14/2024
24K1129-03	Harmon Well RW1 C	Oil	11/13/2024	11/14/2024
24K1129-04	Harmon Well RW1 D	Oil	11/13/2024	11/14/2024

General Notes for York Project (SDG) No.: 24K1129

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 11/19/2024

Sample Information

Client Sample ID: **Harmon Well RW1 A** **York Sample ID:** **24K1129-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:15 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
11104-28-2	Aroclor 1221	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
11141-16-5	Aroclor 1232	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
53469-21-9	Aroclor 1242	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
12672-29-6	Aroclor 1248	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
11097-69-1	**Aroclor 1254**	**4.89**		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
11096-82-5	Aroclor 1260	ND		mg/kg	3.98	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:43	NF
1336-36-3	*** Total PCBs**	**4.89**		mg/kg	3.98	1	EPA 8082A Certifications:	11/18/2024 14:25	11/18/2024 23:43	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.5 %*	*30-150*

Sample Information

Client Sample ID: **Harmon Well RW1 B** **York Sample ID:** **24K1129-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:20 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.36	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:56	NF
11104-28-2	Aroclor 1221	ND		mg/kg	4.36	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:56	NF
11141-16-5	Aroclor 1232	ND		mg/kg	4.36	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/18/2024 23:56	NF

Sample Information

Client Sample ID: **Harmon Well RW1 B** **York Sample ID:** **24K1129-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:20 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg	4.36	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/18/2024 23:56	NF
12672-29-6	Aroclor 1248	ND		mg/kg	4.36	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/18/2024 23:56	NF
11097-69-1	Aroclor 1254	ND		mg/kg	4.36	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/18/2024 23:56	NF
11096-82-5	Aroclor 1260	ND		mg/kg	4.36	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/18/2024 23:56	NF
1336-36-3	* Total PCBs	ND		mg/kg	4.36	1	EPA 8082A Certifications:	11/18/2024 14:25	11/18/2024 23:56	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.5 %*	*30-150*

Sample Information

Client Sample ID: **Harmon Well RW1 C** **York Sample ID:** **24K1129-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:10 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
11104-28-2	Aroclor 1221	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
11141-16-5	Aroclor 1232	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
53469-21-9	Aroclor 1242	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
12672-29-6	Aroclor 1248	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
11097-69-1	**Aroclor 1254**	**4.38**		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF
11096-82-5	Aroclor 1260	ND		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25 CTDOH-PH-0723,NELAC-NY10854	11/19/2024 00:10	NF

Sample Information

Client Sample ID: **Harmon Well RW1 C** **York Sample ID:** **24K1129-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:10 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	*** Total PCBs**	**4.38**		mg/kg	4.01	1	EPA 8082A Certifications:	11/18/2024 14:25	11/19/2024 00:10	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.5 %*	*30-150*

Sample Information

Client Sample ID: **Harmon Well RW1 D** **York Sample ID:** **24K1129-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1129	Harmon Well	Oil	November 13, 2024 1:25 pm	11/14/2024

Polychlorinated Biphenyls (PCB)-8082

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
11104-28-2	Aroclor 1221	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
11141-16-5	Aroclor 1232	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
53469-21-9	Aroclor 1242	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
12672-29-6	Aroclor 1248	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
11097-69-1	**Aroclor 1254**	**4.68**		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
11096-82-5	Aroclor 1260	ND		mg/kg	4.14	1	EPA 8082A Certifications: CTDOH-PH-0723,NELAC-NY10854	11/18/2024 14:25	11/19/2024 00:23	NF
1336-36-3	*** Total PCBs**	**4.68**		mg/kg	4.14	1	EPA 8082A Certifications:	11/18/2024 14:25	11/19/2024 00:23	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*75.0 %*	*30-150*

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 24K1179

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: MNR	Company: Tom Roszak	Company: MNR		RUSH - Next Day
Address:	Address: Rebecca Movall	Address:	YOUR Project Name	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	RUSH - Five Day
				Standard (6-9 Day)
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Walter Mikulsky
Walter Mikulsky

Samples Collected by: (print AND sign your name)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested		Container Type	No.
Harmon Well RW1 A	Oil	11/13/24 1315	PCB's	1	1 ltr. Amber unpreserved	
Harmon Well RW1 B	Oil	11/13/24 1320	PCB's	1	1 ltr. Amber unpreserved	
Harmon Well RW1 C	Oil	11/13/24 1310	PCB's	1	1 ltr. Amber unpreserved	
Harmon Well RW1 D	Oil	11/13/24 1325	PCB's	1	1 ltr. Amber unpreserved	

Comments: Email to CSMelt@daymail rebecca.Movall@MNR.org

Samples iced/chilled at time of lab pickup? circle Yes or No

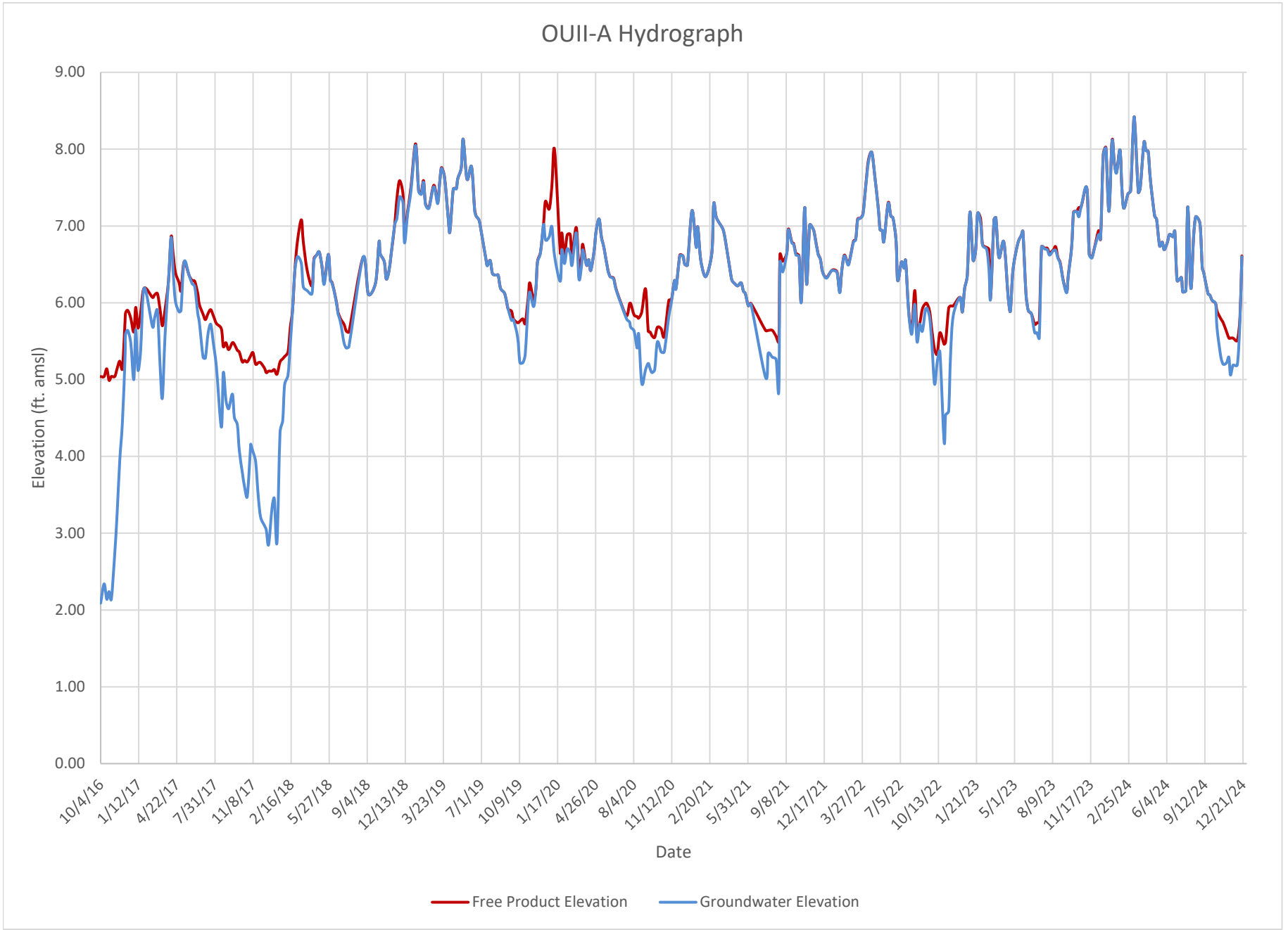
Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

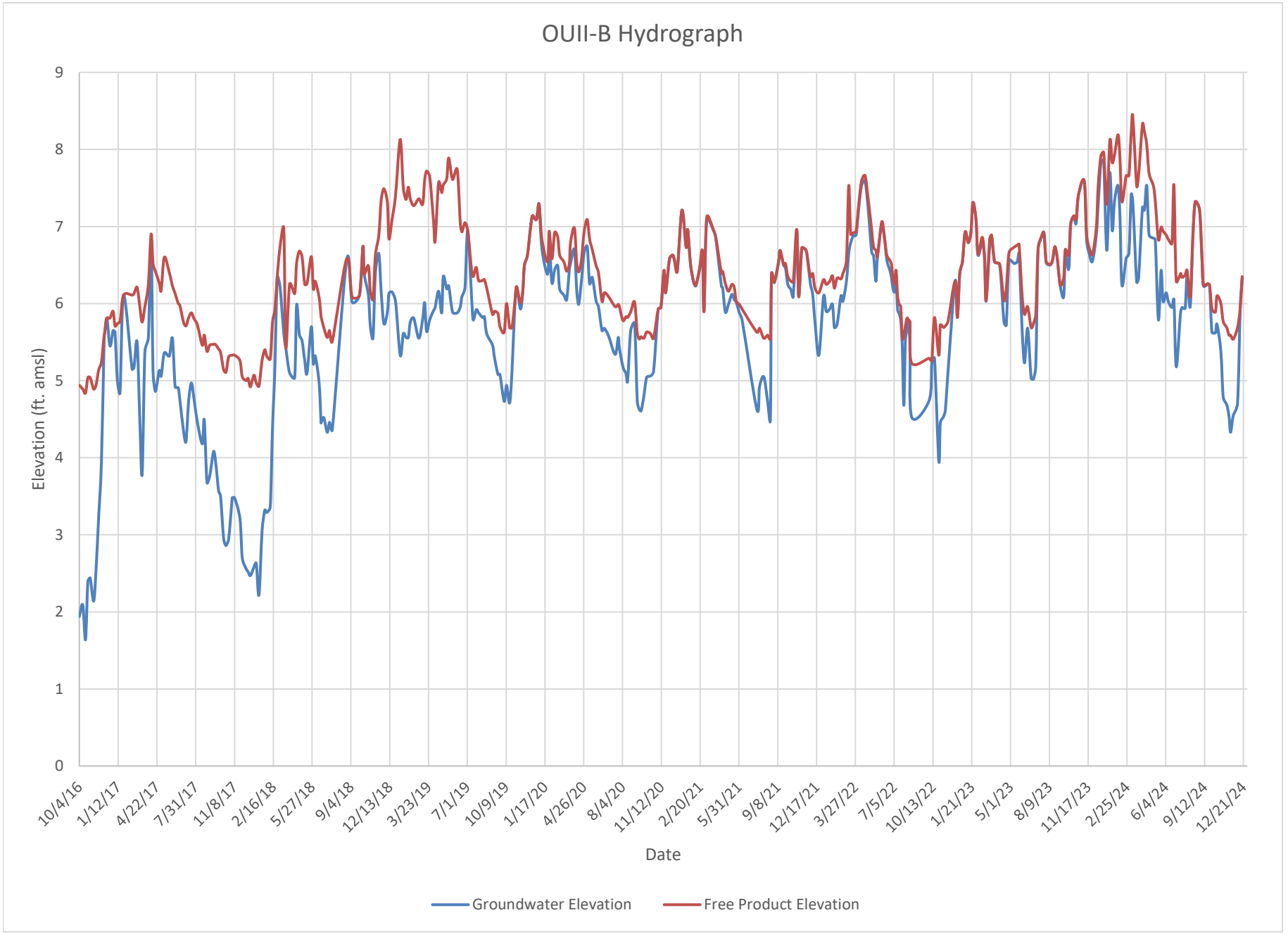
Special Instruction
Field Filtered
Lab to Filter

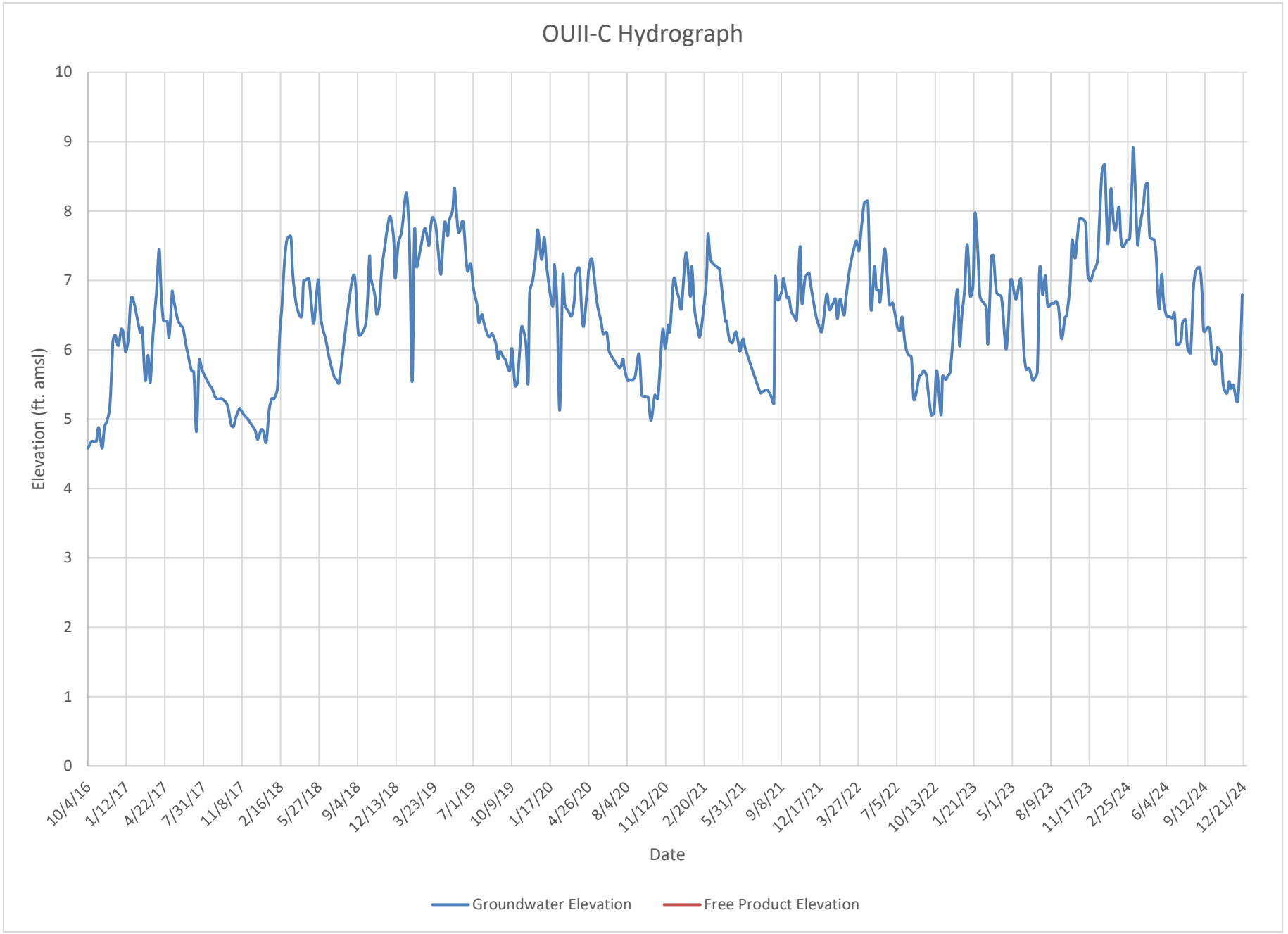
Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Walter Mikulsky	11/14/24 10:26		11-14-24 10:25am		11-14-24 15:05
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/14/24 15:05 1.8 Degrees C

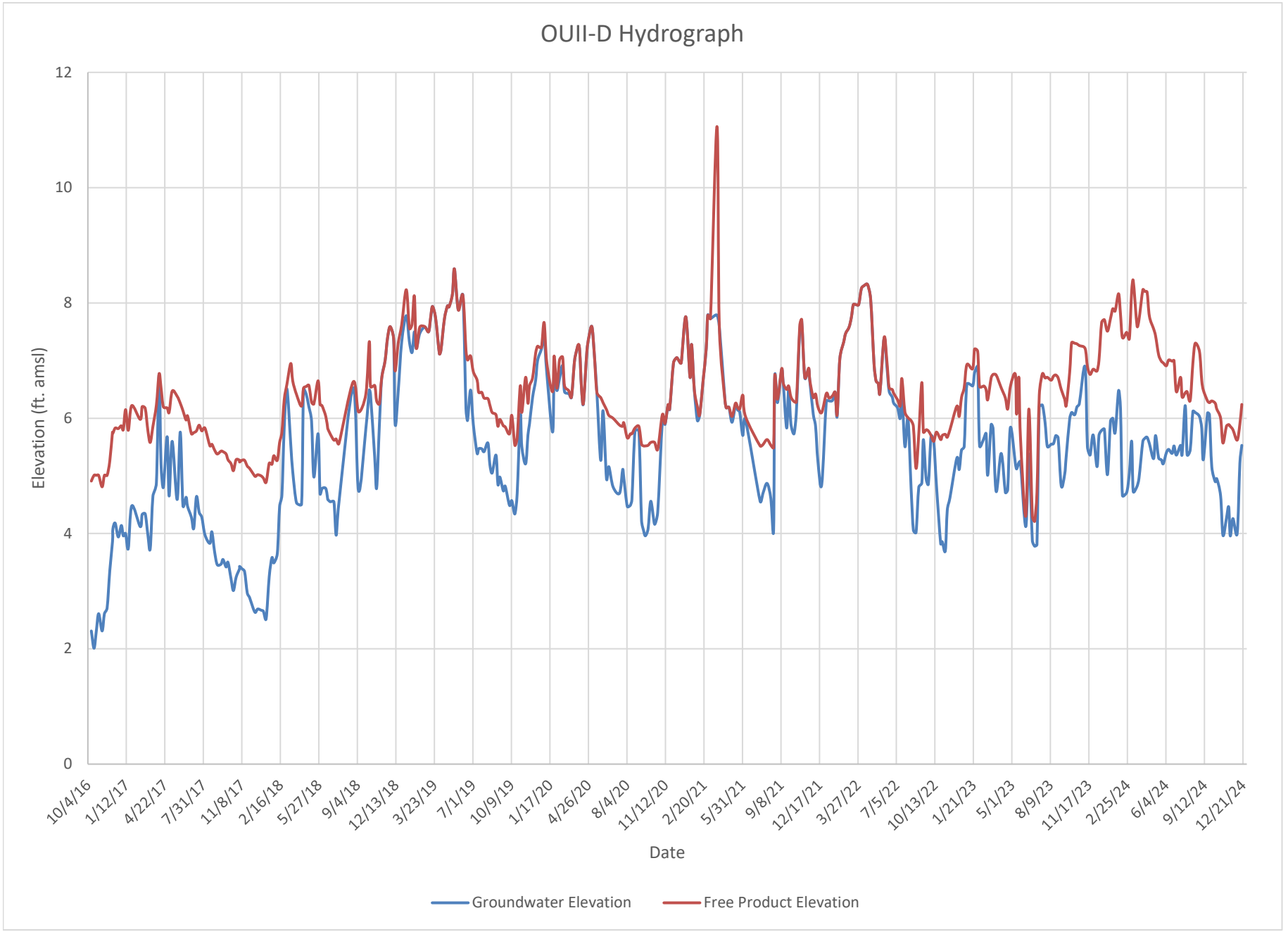
ATTACHMENT C

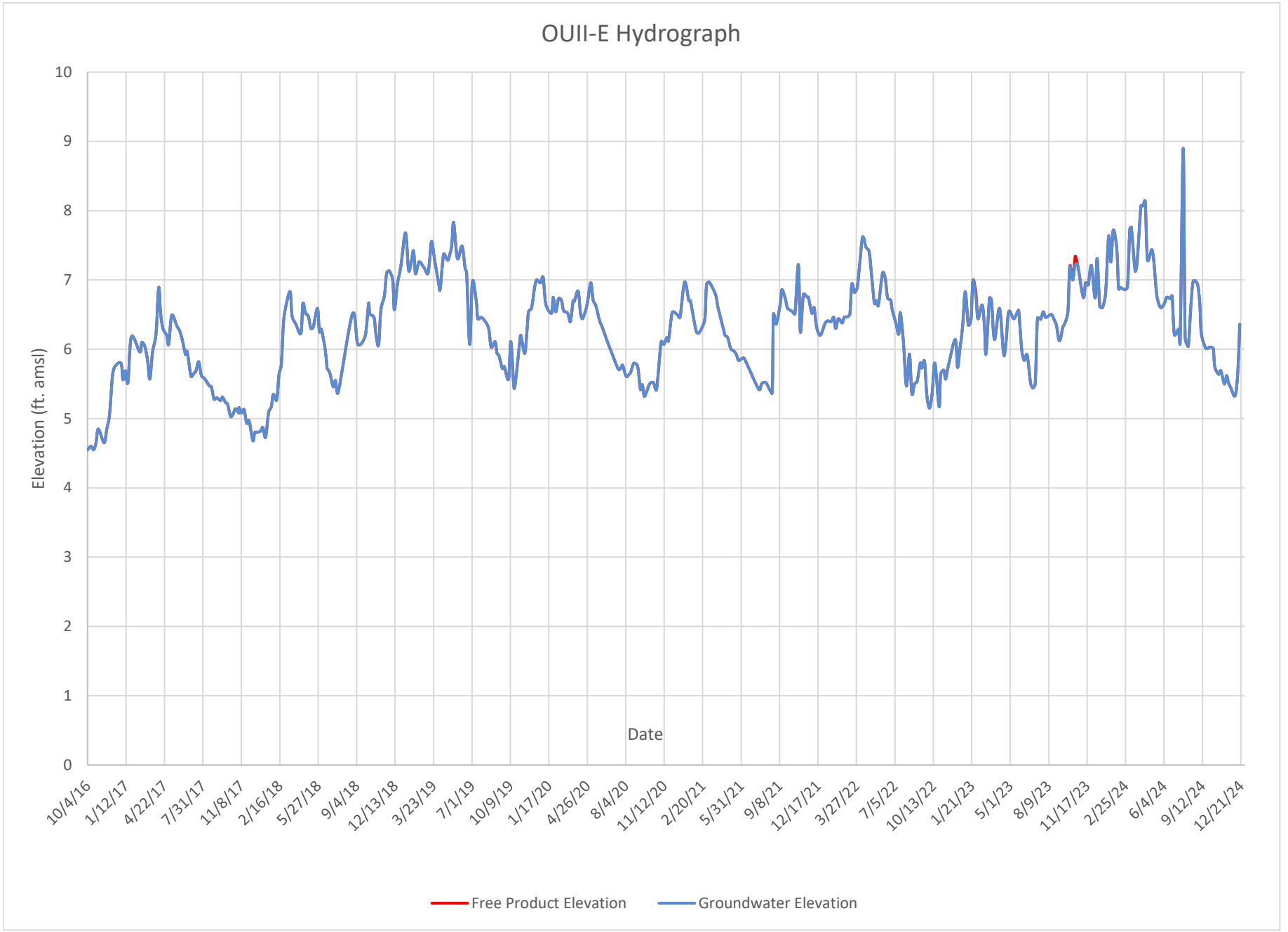
Off-Site Monitoring Well Hydrographs

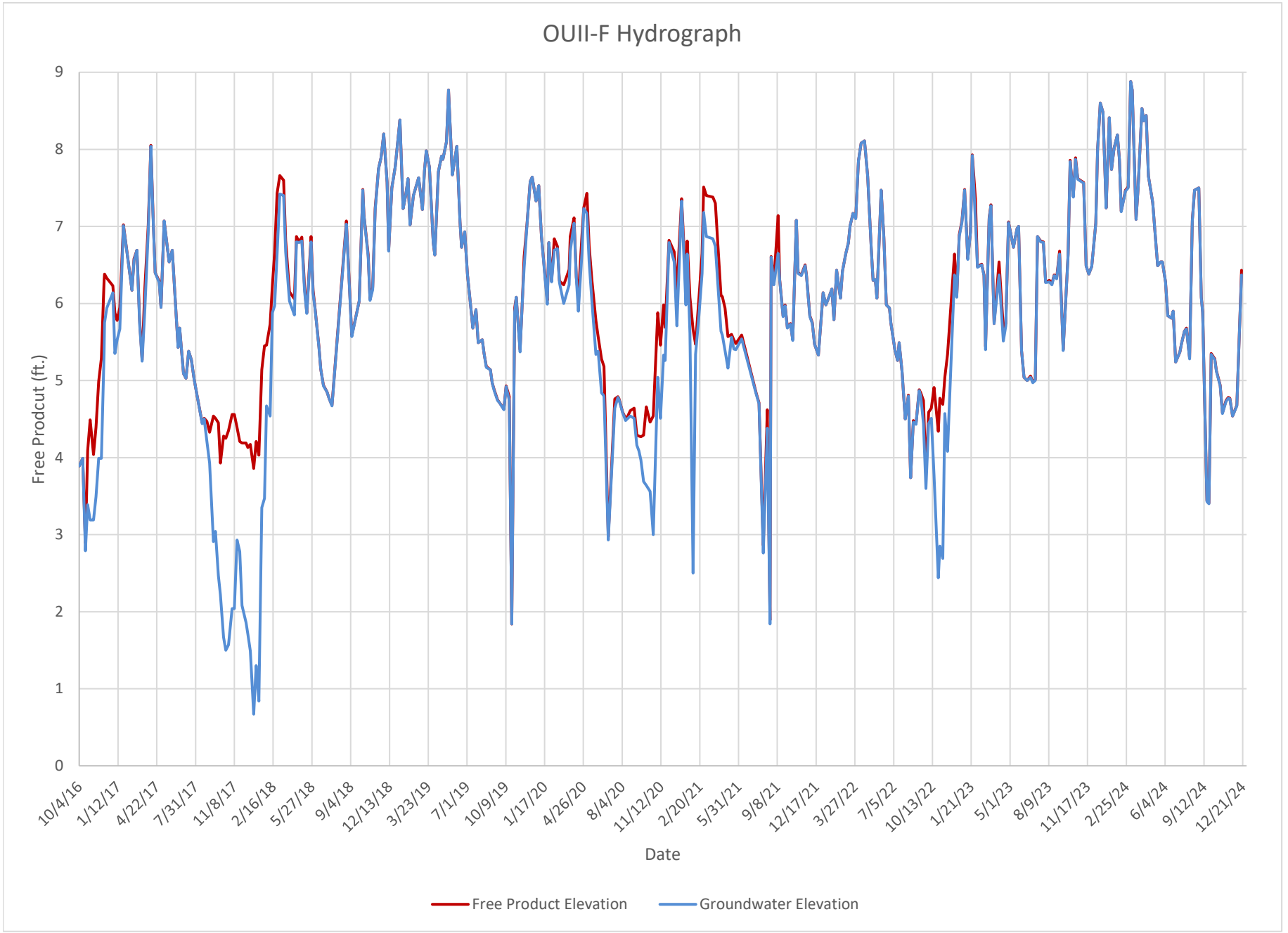

OUII-A Hydrograph
Elevation (ft. amsl)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Inspection Report

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II
Inspection Form
NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?	X		X
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?		x	
Is there any evidence of settlement?		x	
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:
Sealing of crack with asphalt sealer is on going, weather permitting.

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	x		
Is there debris or other material on the slopes?		x	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.
AI1-11 needs repair

OU-I/OU-II Drainage Channels

Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

Drainage channel was clear.

	Yes	No	Corrective Action Needed?
OU-I/OU-II Waste Accumulation Drums and Tank			
~~Is the 500-gallon waste oil disposal AST full?~~ **~~REMOVED N/A~~**	___	____	____
Are the 55-gallon waste oil disposal drums full?		x	
~~Is the 55-gallon NRD disposal drum full?~~ **~~N/A~~**			
Evidence of spillage/leakage in the area of disposal vessels?	------	-----	------

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

Drums not sampled or disposed of during this inspection period

OU-I/OU-II Perimeter Fencing

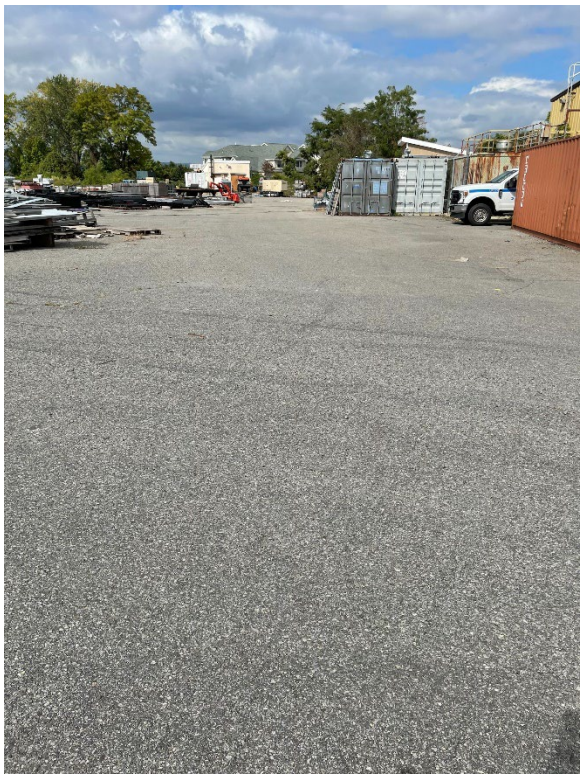
Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	x		

Specify Correction Actions Needed:

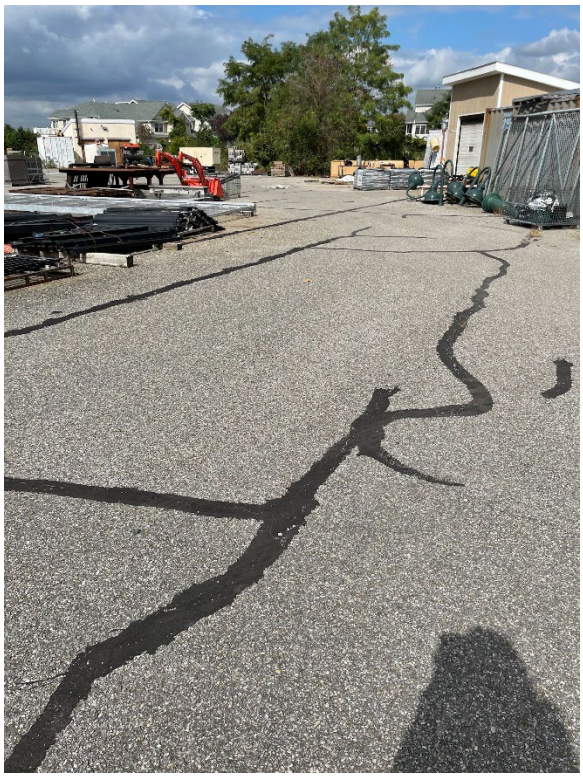
Date of Inspection: 10/3/24 Inspection Completed By: Sara Gianazza

cc: Metro-North Department of Environmental Compliance and Services

NAPL Area L4, taken looking west



OUI, taken looking north



OUI, taken looking north

OUI, taken looking west

NAPL Area L4, taken looking east

Well AI 1-11

Attachment D

NAPL Thickness Measurements and Static Water Level Logs

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.29	0	0	
5/18/2022	-	12.91	0	0	
8/11/2022	-	13.65	0	0	
11/14/2022	-	13.98	0	0	
2/8/2023	-	12.78	0	0	
5/16/2023	-	13.25	0	0	
8/14/2023	-	13.35	0	0	
11/13/2023	-	13.07	0	0	
2/7/2024	-	12.88	0	0	
5/8/2024	-	12.29	0	0	
8/6/2024	-	13.21	0	0	
11/14/2024	-	14.02	0	0	
Maximum	-	14.02	0	0	
Minimum	-	12.29	0	0	
Average	-	13.22	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.3	0	0	
5/18/2022	-	13.02	0	0	
8/11/2022	-	13.55	0	0	
11/14/2022	-	13.91	0	0	
2/8/2023	-	12.93	0	0	
5/16/2023	-	13.21	0	0	
8/14/2023	-	13.17	0	0	
11/13/2023	-	12.62	0	0	
2/7/2024	-	12.82	0	0	
5/8/2024	-	12.49	0	0	
8/6/2024	-	13..25	0	0	
11/14/2024	-	13.82	0	0	
Maximum	-	13.91	0	0	
Minimum	-	12.49	0	0	
Average	-	13.17	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.31	0	0	
5/18/2022	-	13.74	0	0	
8/11/2022	-	13.61	0	0	
11/14/2022	-	14.62	0	0	
Not measured - 2/8/23					
5/16/2023	-	13.52	0	0	
8/14/2023	-	13.62	0	0	
11/13/2023	13.35	13.36	0.01	0	
2/7/2024	13.09	13.10	0.01	0	
5/8/2024	-	13.12	0	0	
8/6/2024	-	13.68	0	0	
11/14/2024	-	13.68	0	0	
Maximum	13.35	14.62	0.01	0	
Minimum	13.09	13.10	0.00	0	
Average	13.22	13.58	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	12.82	0	0	
5/18/2022	-	13.24	0	0	
8/11/2022	-	13.05	0	0	
11/14/2022	-	14.12	0	0	
2/8/2023	-	13.16	0	0	
5/16/2023	-	13.18	0	0	
8/14/2023	-	13.25	0	0	
11/13/2023	-	12.95	0	0	
2/7/2024	-	12.72	0	0	
5/8/2024	-	12.62	0	0	
8/6/2024	-	13.45	0	0	
11/14/2024	-	13.65	0	0	
Maximum	-	14.12	0	0	
Minimum	-	12.62	0	0	
Average	-	13.18	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	3.01	0	0	
5/18/2022	-	1.78	0	0	
8/11/2022	-	2.78	0	0	
11/14/2022	-	0.91	0	0	
2/8/2023	-	1.23	0	0	
5/16/2023	-	5.03	0	0	
8/14/2023	-	4.65	0	0	
11/13/2023	-	3.6	0	0	
2/7/2024	-	3.44	0	0	
5/8/2024	-	7.11	0	0	
8/6/2024	-	13.65	0	0	
11/14/2024	-	14.00	0	0	
Maximum	-	14.00	0	0	
Minimum	-	0.91	0	0	
Average	-	5.10	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured 2/9/2022; well blocked					
Not measured 5/18/22; well blocked					
Not measured 8/11/22					
Not measured 11/14/22; well blocked					
Not measured 2/8/2022					
Not measured 5/16/2023					
Not measured 8/14/2023					
Not measured 11/13/2023					
Not measured 2/7/2024					
Not measured 5/8/2024					
Not measured 8/6/2024					
Not measured 11/14/2024					
Maximum	-	-	-	-	
Minimum	-	-	-	-	
Average	-	-	-	-	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.8	0	0	
5/18/2022	-	13.32	0	0	
8/11/2022	-	12.81	0	0	
11/14/2022	-	14.33	0	0	
2/8/2023	-	13.33	0	0	
5/16/2023	-	13.37	0	0	
8/14/2023	-	13.14	0	0	
11/13/2023	-	12.85	0	0	
2/7/2024	-	12.55	0	0	
5/8/2024	-	12.78	0	0	
8/6/2024	-	13.42	0	0	
11/14/2024	-	14.31	0	0	
Maximum	-	14.33	0	0	
Minimum	-	12.55	0	0	
Average	-	13.33	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.17	0	0	
5/18/2022	-	12.48	0	0	
8/11/2022	-	13.32	0	0	
11/14/2022	-	13.59	0	0	
2/8/2023	-	13.1	0	0	
5/16/2023	-	12.96	0	0	
8/14/2023	-	12.84	0	0	
11/13/2023	-	12.62	0	0	
2/7/2024	-	12.41	0	0	
5/8/2024	-	12.04	0	0	
8/6/2024	-	13.15	0	0	
11/14/2024	-	14.04	0	0	
Maximum	-	14.04	0	0	
Minimum	-	12.04	0	0	
Average	-	12.98	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.16	0	0	
5/18/2022	-	12.98	0	0	
8/11/2022	-	13.14	0	0	
11/14/2022	-	14.01	0	0	
2/8/2023	-	13.14	0	0	
5/16/2023	-	13.02	0	0	
8/14/2023	-	12.95	0	0	
11/13/2023	-	12.8	0	0	
2/7/2024	-	12.52	0	0	
5/8/2024	-	12.51	0	0	
8/6/2024	-	13.18	0	0	
11/14/2024	-	14.13	0	0	
Maximum	-	14.13	0	0	
Minimum	-	12.51	0	0	
Average	-	13.13	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.35	0	0	
5/18/2022	-	12.69	0	0	
8/11/2022	-	12.49	0	0	
11/14/2022	-	-	-	-	well blocked
2/8/2023	-	13.02	0	0	
5/16/2023	-	12.84	0	0	
8/14/2023	-	12.83	0	0	
11/13/2023	-	12.62	0	0	
2/7/2024	-	12.28	0	0	
5/8/2024	-	12.35	0	0	
8/6/2024	-	13.08	0	0	
11/14/2024	-	13.99	0	0	
Maximum	-	13.99	0	0	
Minimum	-	12.28	0	0	
Average	-	12.88	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	-	12.85	0	0	
2/9/2022	-	12.86	0	0	
3/10/2022	-	12.35	0	0	
4/7/2022	-	12.55	0	0	
5/13/2022	-	12.22	0	0	
6/16/2022	-	12.35	0	0	
7/27/2022	-	16.18	0	0	
8/11/2022	-	16.3	0	0	
9/13/2022	-	16.65	0	0	
10/10/2022	-	16.72	0	0	
11/9/2022	-	16.84	0	0	
12/9/2022	-	16.82	0	0	
1/4/2023	-	16.41	0	0	
2/6/2023	-	16.01	0	0	
3/8/2023	-	16.1	0	0	
4/3/2023	16.08	16.09	0.01	0	
5/10/2023	-	16.01	0	0	
6/16/2023	-	16.05	0	0	
8/17/2023	-	15.74	0	0	
8/23/2023	15.46	15.83	0.37	0	
9/6/2023	-	15.82	0	0	
10/11/2023	-	15.6	0	0	
11/7/2023	-	15.54	0	0	
12/13/2023	-	15.71	0	0	
1/4/2024	-	15.29	0	0	
2/7/2024	-	15.41	0	0	
3/11/2024	15.64	15.7	0.06	0	
4/10/2024	-	14.97	0	0	
5/8/2024	-	15.25	0	0	
6/11/2024	-	15.64	0	0	
7/1/2024	-	15.91	0	0	
8/6/2024	-	16.01	0	0	
9/5/2024	-	15.74	0	0	
10/1/2024	-	16.03	0	0	
11/8/2024	-	16.45	0	0	
11/14/2024	-	16.55	0	0	
11/18/2024	-	16.58	0	0	
11/25/2024	-	16.58	0	0	
12/6/2024	-	16.74	0	0	
12/13/2024	-	16.69	0	0	
12/18/2024	-	16.73	0	0	
Maximum	16.08	16.84	0.37	0	
Minimum	15.46	12.22	0	0	
Average	15.73	15.56	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13.39	13.4	0.01	0	
2/9/2022	13.35	13.36	0.01	0	
3/10/2022	13.3	13.31	0.01	0	
4/7/2022	13	13.02	0.02	0	
5/13/2022	12.48	12.49	0.01	0	
6/16/2022	12.45	12.52	0.07	0	
8/11/2022	17.48	17.55	0.07	0	
9/13/2022	17.52	17.53	0.01	0	
10/10/2022	17.45	17.46	0.01	0	
11/9/2022	17.36	17.37	0.01	0	
12/9/2022	17.61	17.64	0.03	0	
1/4/2023	17.04	17.05	0.01	0	
2/6/2023	16.80	16.81	0.01	0	
3/8/2023	17.15	17.18	0.03	0	
4/3/2023	17.06	17.07	0.01	0	
5/10/2023	16.52	16.53	0.01	0	
6/16/2023	16.48	16.49	0.01	0	
7/11/2023	16.68	16.78	0.1	0	
8/17/2023	16.64	16.69	0.05	0	
9/6/2023	16.74	16.92	0.18	0	
10/11/2023	16.02	16.03	0.01	0	
11/7/2023	16.32	16.33	0.01	0	
12/13/2023	16.72	16.73	0.01	0	
1/4/2024	15.98	15.99	0.01	0	
2/7/2024	15.95	15.96	0.01	0	
3/11/2024	16.05	16.06	0.01	0	
4/10/2024	15.59	15.61	0.02	0	
5/8/2024	16.28	16.29	0.01	0	
6/11/2024	16.72	16.73	0.01	0	
7/1/2024	17.11	17.12	0.01	0	
8/6/2024	17.05	17.06	0.01	0	
9/5/2024	16.65	17.01	0.36	0	
10/1/2024	16.93	17.21	0.28	0	
11/8/2024	17.55	17.56	0.01	0	
11/14/2024	17.55	17.56	0.01	0	
12/6/2024	17.54	17.56	0.02	0	
Maximum	17.61	17.64	0.36	0	
Minimum	12.45	12.49	0.01	0	
Average	16.18	16.22	0.04	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13	13.01	0.01	0	
2/9/2022	12.75	12.82	0.07	0	
3/10/2022	12.9	12.91	0.01	0	
4/7/2022	12.55	12.56	0.01	0	
5/13/2022	12.05	12.06	0.01	0	
6/16/2022	12.05	12.15	0.1	0	
7/27/2022	16.95	16.96	0.01	0	
8/11/2022	17.11	17.12	0.01	0	
9/13/2022	17.14	17.16	0.02	0	
10/10/2022	17.05	17.06	0.01	0	
11/9/2022	17.63	17.64	0.01	0	
12/9/2022	17.41	17.42	0.01	0	
1/4/2023	16.54	16.64	0.1	0	
2/6/2023	16.42	16.43	0.01	0	
3/8/2023	16.79	16.8	0.01	0	
4/3/2023	16.75	16.76	0.01	0	
5/10/2023	16.19	16.20	0.01	0	
6/16/2023	16.23	16.24	0.01	0	
7/11/2023	16.25	16.34	0.09	0	
8/17/2023	16.28	16.29	0.01	0	
9/6/2023	16.41	16.54	0.13	0	
10/11/2023	15.68	15.69	0.01	0	
11/7/2023	15.95	16.04	0.09	0	
12/13/2023	16.38	16.39	0.01	0	
1/4/2024	15.65	15.66	0.01	0	
2/7/2024	15.63	15.64	0.01	0	
3/11/2024	-	15.31	0	0	
4/10/2024	15.19	15.33	0.14	0	
5/8/2024	16	16.11	0.11	0	
6/11/2024	16.4	16.45	0.05	0	
7/1/2024	16.76	16.77	0.01	0	
8/6/2024	16.58	16.66	0.08	0	
9/5/2024	16.35	16.55	0.2	0	
10/1/2024	16.55	16.73	0.18	0	
11/8/2024	17.28	17.42	0.14	0	
11/14/2024	17.42	17.5	0.08	0	
12/6/2024	17.28	17.29	0.01	0	
Maximum	17.63	17.64	0.2	0	
Minimum	12.05	12.06	0	0	
Average	15.88	15.91	0.05	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	12.34	12.7	0.36	0	
1/11/2022	11.81	12.29	0.48	0	
1/20/2022	12.02	12.48	0.46	0	
1/27/2022	12.35	12.95	0.6	1	
2/1/2022	12.35	13.05	0.7	1.13	
2/8/2022	11.98	12.4	0.42	0.88	
2/18/2022	12.49	12.6	0.11	0	
2/23/2022	12.3	12.48	0.18	0	
3/4/2022	12.35	12.51	0.16	0	
3/10/2022	12.25	12.65	0.4	0.75	
3/15/2022	12.28	12.43	0.15	0	
3/22/2022	12.28	12.69	0.41	0.5	
3/29/2022	12	12.18	0.18	0	
4/5/2022	11.89	12.07	0.18	0	
4/12/2022	11.29	11.33	0.04	0	
4/21/2022	11.19	11.35	0.16	0	
4/29/2022	11.12	11.29	0.17	0	
5/8/2022	11.35	11.85	0.5	0.56	
5/13/2022	11.3	11.48	0.18	0	
5/19/2022	11.38	11.61	0.23	0.75	
5/23/2022	11.71	11.89	0.18	0	
6/3/2022	11.45	11.79	0.34	0.5	
6/10/2022	11.37	11.55	0.18	0	
6/16/2022	11.4	11.55	0.15	0	
6/24/2022	11.4	11.5	0.1	0	
6/28/2022	11.55	11.88	0.33	0.25	
7/8/2022	15.98	16.25	0.27	0	
7/15/2022	16.18	16.36	0.18	0	
7/19/2022	16.02	16.2	0.18	0	
7/27/2022	16.25	16.4	0.15	0	
8/4/2022	16.20	16.65	0.45	0.88	
8/12/2022	16.40	16.55	0.15	0	
8/18/2022	16.45	16.61	0.16	0	
8/25/2022	17.18	17.21	0.03	0	
9/1/2022	16.56	16.71	0.15	0	
9/9/2022	16.45	16.51	0.06	0	
9/13/2022	16.31	16.45	0.14	0	
9/20/2022	16.28	16.65	0.37	0	
9/26/2022	16.38	16.55	0.17	0	
10/1/2022	16.42	16.59	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	16.46	16.98	0.52	1	
10/8/2022	16.50	16.65	0.15	0	
10/10/2022	16.22	16.38	0.16	0.25	
10/17/2022	15.95	16.15	0.2	0	
11/9/2022	16.65	16.83	0.18	0	
11/14/2022	16.59	17.28	0.69	0	
11/21/2022	16.65	16.88	0.23	0	
12/9/2022	16.58	17.05	0.47	1.25	
12/15/2022	16.81	17.15	0.34	0	
12/21/2022	16.00	16.31	0.31	0	
12/28/2022	15.25	15.80	0.55	0	
1/4/2023	15.80	16.35	0.55	1.25	
1/12/2023	15.85	16.21	0.36	0	
1/14/2023	15.82	16.2	0.38	0	
1/24/2023	15.82	16.25	0.43	0	
2/1/2023	16.01	16.45	0.44	0	
2/6/2023	16.11	16.55	0.44	0	
2/17/2023	15.95	16.68	0.73	0.75	
2/23/2023	16.10	16.51	0.41	0	
3/8/2023	15.93	16.29	0.36	0	
3/13/2023	15.68	15.98	0.3	0	
3/21/2023	15.67	16.01	0.34	0	
4/3/2023	15.94	16.23	0.29	0	
4/14/2023	16.000	16.45	0.45	0	
4/20/2023	16.12	16.51	0.39	0	
4/27/2023	15.98	16.09	0.11	0	
5/10/2023	15.37	15.45	0.08	0	
5/14/2023	15.38	15.52	0.14	0	
5/23/2023	15.78	15.88	0.1	0	
5/31/2023	15.95	16.32	0.37	0	
6/5/2023	15.98	16.31	0.33	0	
6/6/2023	15.98	16.31	0.33	0	
6/14/2023	16.08	16.15	0.07	0	
6/23/2023	16.21	16.43	0.22	0	
6/29/2023	16.1	16.33	0.23	0	
7/5/2023	16.15	16.4	0.25	0	
7/11/2023	15.25	15.45	0.2	0	
7/19/2023	15.09	15.41	0.32	0	
7/26/2023	15.1	15.46	0.36	0	
8/1/2023	15.18	15.49	0.31	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	15.35	15.63	0.28	0	
8/17/2023	15.41	15.68	0.27	0	
8/29/2023	15.5	15.84	0.34	0	
9/6/2023	15.61	15.95	0.34	0	
9/15/2023	15.65	16.3	0.65	0	
9/19/2023	15.7	16.15	0.45	0	
9/28/2023	14.85	14.89	0.04	0	
10/3/2023	14.88	14.96	0.08	0	
10/11/2023	14.85	14.94	0.09	0.25	
10/17/2023	14.98	15.15	0.17	0	
10/23/2023	15.05	15.25	0.2	0	
11/7/2023	15.15	15.36	0.21	0	
11/13/2023	15.41	15.59	0.18	0	
11/20/2023	15.59	15.92	0.33	0	
11/28/2023	15.5	15.81	0.31	0	
12/8/2023	15.61	15.82	0.21	0	
12/13/2023	15.55	15.88	0.33	0	
12/20/2023	14.99	15.21	0.22	0	
12/27/2023	14.82	14.99	0.17	0	
1/4/2024	14.8	15.19	0.39	0	
1/12/2024	14.62	14.63	0.01	0	
1/18/2024	14.52	14.58	0.06	0	
1/24/2024	14.88	14.95	0.07	0	
2/2/2024	14.86	14.91	0.05	0	
2/7/2024	15.26	15.32	0.06	0	
2/12/2024	14.94	14.95	0.01	0	
2/23/2024	14.98	14.99	0.01	0	
3/1/2024	15.08	15.09	0.01	0	
3/7/2024	15.28	15.45	0.17	0	
3/11/2024	14.75	14.91	0.16	0	
3/21/2024	14.8	15.1	0.3	0	
3/26/2024	14.52	14.71	0.19	0	
4/5/2024	14.51	14.54	0.03	0	
4/10/2024	14.41	14.49	0.08	0	
4/16/2024	14.48	15.51	1.03	0	
4/22/2024	14.68	14.92	0.24	0	
5/3/2024	15.02	15.28	0.26	0	
5/8/2024	15.11	15.42	0.31	0	
5/16/2024	14.05	14.38	0.33	0	
5/23/2024	15.32	15.72	0.40	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/28/2024	15.40	15.75	0.35	0	
6/5/2024	15.55	15.84	0.29	0	
6/11/2024	15.61	15.92	0.31	0	
6/20/2024	15.65	15.89	0.24	0	
6/25/2024	15.91	16.28	0.37	0	
7/1/2024	15.95	16.06	0.11	0	
7/12/2024	15.93	16.11	0.18	0	
7/16/2024	14.98	15.35	0.37	0	
7/24/2024	14.85	15.22	0.37	0	
7/29/2024	15.64	15.75	0.11	0	
8/6/2024	15.81	16.03	0.22	0	
8/13/2024	15.35	15.91	0.56	1.38	
8/19/2024	15.28	15.45	0.17	0	
8/30/2024	15.4	15.65	0.25	0	
9/5/2024	15.52	15.81	0.29	0	
9/9/2024	15.55	15.94	0.39	0	
9/20/2024	15.75	16.13	0.38	0	
9/25/2024	15.75	16.12	0.37	0	
10/1/2024	15.8	16.2	0.4	0	
10/10/2024	15.91	16.14	0.23	0	
10/14/2024	16.01	16.39	0.38	0	
10/24/2024	16.21	16.85	0.64	1	
10/30/2024	16.35	16.64	0.29	0	
11/8/2024	16.55	16.95	0.4	0	
11/14/2024	16.66	17.3	0.64	0	
11/18/2024	16.59	16.78	0.19	0	
11/25/2024	16.41	16.66	0.25	0	
12/6/2024	16.55	16.88	0.33	0	
12/13/2024	16.63	16.72	0.09	0	
12/18/2024	16.39	16.62	0.23	0	
Maximum	17.18	17.3	1.03	1.38	
Minimum	11.12	11.29	0.01	0	
Average	15.01	15.29	0.28	0.10	
Total NAPL Removed (gal)				14.33	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.29	0	0	
5/18/2022	-	10.98	0	0	
8/11/2022	-	11.58	0	0	
11/14/2022	-	11.70	0	0	
2/8/2023	-	10.93	0	0	
5/16/2023	13.68	13.69	0.01	0	
8/14/2023	-	10.81	0	0	
11/13/2023	-	10.62	0	0	
2/8/2024	-	12.2	0	0	
5/8/2024	-	10.48	0	0	
8/6/2024	-	11.08	0	0	
11/14/2024	-	11.62	0	0	
Maximum	13.68	13.69	0.01	0	
Minimum	13.68	10.48	0	0	
Average	13.68	11.42	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	10.68	0	0	
5/18/2022	-	10.11	0	0	
8/11/2022	14.15	14.21	0.06	0	
11/14/2022	-	8.8	0	0	
2/8/2023	-	10.12	0	0	
5/16/2023	-	9.99	0	0	
8/14/2023	-	9.8	0	0	
11/13/2023	-	9.61	0	0	
2/8/2024	-	10.19	0	0	
5/8/2024	-	9.42	0	0	
8/6/2024	-	10	0	0	
11/14/2024	-	10.82	0	0	
Maximum	14.15	14.21	0.06	0	
Minimum	14.15	8.8	0	0	
Average	14.15	10.31	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.75	0	0	
5/18/2022	-	13.12	0	0	
8/11/2022	-	13.75	0	0	
11/14/2022	-	13.98	0	0	
2/8/2023	-	13.32	0	0	
5/16/2023	-	13.09	0	0	
8/14/2023	-	12.92	0	0	
11/13/2023	-	12.74	0	0	
2/8/2024	-	9.09	0	0	
5/8/2024	-	12.55	0	0	
8/6/2024	-	13.11	0	0	
11/14/2024	-	13.98	0	0	
Maximum	-	13.98	0	0	
Minimum	-	9.09	0	0	
Average	-	12.95	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	14.55	14.6	0.05	0	
5/18/2022	13.65	13.69	0.04	0	
8/11/2022	14.15	14.21	0.06	0	
11/14/2022	13.91	14.52	0.61	0	
2/8/2023	13.22	13.65	0.43	0	
5/16/2023	-	10.8	0	0	
8/14/2023	13.61	13.62	0.01	0	
11/13/2023	13.21	13.22	0.01	0	
2/8/2024	12.5	12.51	0.01	0	
5/8/2024	12.94	13.01	0.07	0	
8/6/2024	13.68	13.69	0.01	0	
11/14/2024	14.71	14.75	0.04	0	
Maximum	14.71	14.75	0.61	0	
Minimum	12.5	10.8	0	0	
Average	13.65	13.52	0.11	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	17.51	17.61	0.1	0	
5/18/2022	17.85	17.9	0.05	0	
8/11/2022	17.41	17.42	0.01	0	
11/14/2022	-	17.61	0	0	
2/8/2023	16.94	16.95	0.01	0	
5/16/2023	16.65	16.66	0.01	0	
8/14/2023	16.51	16.62	0.11	0	
11/13/2023	16.35	16.36	0.01	0	
2/8/2024	16.00	16.01	0.01	0	
5/8/2024	16.18	16.19	0.01	0	
8/6/2024	-	16.78	0	0	
11/14/2024	17.55	17.77	0.22	0	
Maximum	17.85	17.90	0.22	0	
Minimum	16.00	16.01	0.00	0	
Average	16.90	16.99	0.05	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	18.81	18.92	0.11	0	
5/18/2022	18.28	18.29	0.01	0	
8/11/2022	18.91	18.92	0.01	0	
11/14/2022	19.19	19.75	0.56	0	
2/8/2023	18.14	18.36	0.22	0	
5/16/2023	18.15	18.16	0.01	0	
8/14/2023	17.91	17.92	0.01	0	
11/13/2023	17.95	17.96	0.01	0	
2/8/2024	17.02	17.04	0.02	0	
5/8/2024	-	17.75	0	0	
8/6/2024	-	14.76	0	0	
11/14/2024	-	15.41	0	0	
Maximum	19.19	19.75	0.56	0	
Minimum	17.02	14.76	0.00	0	
Average	18.26	17.77	0.08	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.95	0	0	
5/18/2022	-	13.48	0	0	
8/11/2022	-	14.24	0	0	
11/14/2022	14.41	14.42	0.01	0	
2/8/2023	13.69	13.71	0.02	0	
5/16/2023	-	13.53	0	0	
8/14/2023	-	13.43	0	0	
11/13/2023	13.31	13.32	0.01	0	
2/8/2024	-	12.81	0	0	
5/8/2024	-	13.14	0	0	
8/6/2024	-	13.65	0	0	
11/14/2024	-	14.7	0	0	
Maximum	14.41	14.70	0.02	0	
Minimum	13.31	12.81	0.00	0	
Average	13.80	13.70	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	12.45	0	0	
5/18/2022	-	11.92	0	0	
8/11/2022	12.4	12.41	0.01	0	
11/14/2022	-	12.61	0	0	
2/8/2023	-	11.9	0	0	
5/16/2023	-	11.73	0	0	
8/14/2023	-	11.68	0	0	
11/13/2023	-	11.46	0	0	
2/8/2024	-	10.96	0	0	
5/8/2024	-	11.19	0	0	
8/6/2024	-	11.84	0	0	
11/14/2024	-	-	-	0	12.61 dry
Maximum	12.40	12.61	0.01	0	
Minimum	12.40	10.96	0.00	0	
Average	12.40	11.83	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	9.42	0	0	
1/11/2022	-	9.12	0	0	
1/20/2022	-	9.23	0	0	
1/27/2022	-	9.52	0	0	
2/1/2022	-	9.65	0	0	
2/8/2022	-	9.32	0	0	
2/18/2022	-	9.58	0	0	
2/23/2022	-	9.63	0	0	
3/4/2022	-	9.56	0	0	
3/10/2022	-	9.53	0	0	
3/15/2022	-	9.58	0	0	
3/22/2022	-	9.35	0	0	
3/29/2022	-	9.29	0	0	
4/5/2022	-	8.99	0	0	
4/12/2022	-	8.33	0	0	
4/21/2022	-	8.37	0	0	
4/29/2022	-	8.25	0	0	
5/8/2022	-	9.21	0	0	
5/13/2022	-	8.44	0	0	
5/19/2022	-	8.63	0	0	
5/23/2022	-	8.71	0	0	
6/3/2022	-	8.35	0	0	
6/10/2022	-	8.87	0	0	
6/16/2022	-	8.61	0	0	
6/24/2022	-	8.69	0	0	
6/28/2022	-	9.21	0	0	
7/8/2022	-	9.42	0	0	
7/15/2022	-	8.21	0	0	
7/19/2022	-	9.21	0	0	
8/4/2022	-	9.65	0	0	
8/12/2022	-	9.41	0	0	
8/18/2022	-	9.85	0	0	
8/25/2022	-	9.91	0	0	
9/1/2022	-	9.94	0	0	
9/9/2022	-	9.68	0	0	
9/13/2022	-	9.21	0	0	
9/20/2022	-	9.85	0	0	
9/26/2022	-	9.91	0	0	
10/3/2022	-	9.86	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	9.35	0	0	
10/17/2022	-	9.70	0	0	
10/28/2022	-	10.00	0	0	
11/1/2022	-	9.91	0	0	
11/9/2022	-	10.02	0	0	
11/14/2022	-	9.63	0	0	
11/21/2022	-	10.15	0	0	
12/9/2022	-	9.97	0	0	
12/15/2022	-	9.91	0	0	
12/21/2022	-	9.00	0	0	
12/28/2022	-	9.28	0	0	
1/4/2023	-	8.69	0	0	
1/12/2023	-	9.45	0	0	
1/19/2023	-	9.21	0	0	
1/24/2023	-	9.18	0	0	
2/1/2023	-	9.38	0	0	
2/6/2023	-	9.41	0	0	
2/17/2023	-	9.35	0	0	
2/23/2023	-	9.61	0	0	
2/27/2023	-	9.52	0	0	
3/8/2023	-	9.06	0	0	
3/13/2023		8.81	0	0	
3/21/2023	-	9.25	0	0	
4/3/2023	-	9.48	0	0	
4/14/2023	-	9.61	0	0	
4/20/2023	-	9.60	0	0	
4/27/2023	-	9.25	0	0	
5/10/2023	-	8.86	0	0	
5/19/2023	-	8.80	0	0	
5/23/2023	-	9.25	0	0	
5/31/2023	-	9.85	0	0	
6/6/2023	-	9.44	0	0	
6/14/2023	-	9.85	0	0	
6/23/2023	-	9.68	0	0	
6/29/2023	-	9.69	0	0	
7/5/2023	-	9.55	0	0	
7/11/2023	-	8.29	0	0	
7/19/2023	-	8.57	0	0	
7/26/2023	-	8.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/1/2023	-	8.73	0	0	
8/11/2023	-	8.68	0	0	
8/17/2023	-	9.01	0	0	
8/23/2023	-	9.01	0	0	
8/29/2023	-	8.99	0	0	
9/6/2023	-	9.04	0	0	
9/15/2023	-	8.75	0	0	
9/19/2023	-	8.68	0	0	
9/28/2023	-	8.12	0	0	
10/3/2023	-	8.90	0	0	
10/11/2023	-	8.45	0	0	
10/17/2023	-	8.44	0	0	
10/23/2023	-	8.51	0	0	
11/7/2023	-	8.54	0	0	
11/13/2023	-	8.91	0	0	
11/20/2023	-	9.01	0	0	
11/28/2023	-	9.00	0	0	
12/8/2023	-	8.99	0	0	
12/13/2023	-	8.91	0	0	
12/20/2023	-	8.06	0	0	
12/27/2023	-	8.00	0	0	
1/4/2024	-	8.31	0	0	
1/12/2024	-	7.75	0	0	
1/18/2024	-	8.05	0	0	
1/24/2024	-	8.11	0	0	
2/2/2024	-	8.05	0	0	
2/7/2024	-	8.15	0	0	
2/12/2024	-	8.38	0	0	
2/23/2024	-	8.22	0	0	
3/1/2024	-	8.26	0	0	
3/7/2024	-	8.31	0	0	
3/11/2024	-	8.01	0	0	
3/21/2024	-	8.34	0	0	
3/26/2024	-	8.25	0	0	
4/5/2024	-	7.69	0	0	
4/10/2024	-	7.95	0	0	
4/16/2024	-	8.08	0	0	
4/22/2024	-	8.20	0	0	
5/3/2024	-	8.01	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/8/2024	-	8.56	0	0	
5/16/2024	-	8.53	0	0	
5/23/2024	-	8.76	0	0	
5/28/2024	-	8.71	0	0	
6/5/2024	-	8.93	0	0	
6/11/2024	-	8.85	0	0	
6/20/2024	-	8.83	0	0	
6/25/2024	-	9.28	0	0	
7/1/2024	-	9.31	0	0	
7/12/2024	-	9.26	0	0	
7/16/2024	-	9.33	0	0	
7/24/2024	-	9.31	0	0	
7/29/2024	-	9.11	0	0	
8/6/2024	-	9.11	0	0	
8/13/2024	-	8.71	0	0	
8/19/2024	-	8.61	0	0	
8/30/2024	-	8.75	0	0	
9/5/2024	-	8.90	0	0	
9/9/2024	-	8.98	0	0	
9/20/2024	-	9.12	0	0	
9/25/2024	-	9.14	0	0	
10/1/2024	-	9.18	0	0	
10/10/2024	-	9.15	0	0	
10/14/2024	-	9.45	0	0	
10/24/2024	9.71	9.72	0.01	0	
10/30/2024	-	9.93	0	0	
11/8/2024	-	9.95	0	0	
11/14/2024	-	10.12	0	0	
11/18/2024	-	9.61	0	0	
11/25/2024	-	9.94	0	0	
12/6/2024	-	10.15	0	0	
12/13/2024	-	10.12	0	0	
12/18/2024	-	9.99	0	0	
Maximum	9.71	10.15	0.01	0	
Minimum	9.71	7.69	0.00	0	
Average	9.71	9.07	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	7.10	8.10	1.00	2.25	
5/18/2022	6.64	7.63	0.99	1.25	
8/11/2022	8.95	9.95	1.00	1.00	
11/9/2022	9.18	9.81	0.63	0.38	
2/8/2023	8.36	8.66	0.30	0.00	
5/16/2023	8.10	9.60	1.50	1.50	
8/14/2023	8.00	8.45	0.45	0.00	
11/13/2023	7.83	9.39	1.56	1.88	
2/8/2024	7.52	7.95	0.43	0.00	
5/8/2024	7.75	8.01	0.26	0.00	
8/6/2024	8.25	8.61	0.36	0.00	
11/14/2024	9.21	9.90	0.69	0.00	
Maximum	9.21	9.95	1.56	2.25	
Minimum	6.64	7.63	0.26	0.00	
Average	8.07	8.84	0.76	0.69	
Total NAPL Removed (gal)				8.26	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	7.71	0	0	
5/18/2022	-	7.25	0	0	
8/11/2022	9.75	9.76	0.01	0	
11/14/2022	-	9.98	0	0	
2/8/2023	-	9.21	0	0	
5/16/2023	-	8.95	0	0	
8/14/2023	-	8.21	0	0	
11/13/2023	8.7	8.71	0.01	0	
2/8/2024	-	8.21	0	0	
5/8/2024	-	8.54	0	0	
8/6/2024	-	9.15	0	0	
11/14/2024	-	10.01	0	0	
Maximum	9.75	10.01	0.01	0	
Minimum	8.70	7.25	0.00	0	
Average	9.23	8.81	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	7.04	0	0	
5/18/2022	-	6.33	0	0	
8/11/2022	-	8.96	0	0	
11/14/2022	-	9.28	0	0	
2/8/2023	-	8.25	0	0	
5/16/2023	-	8.26	0	0	
Not measured 8/14/2023					
11/13/2023	-	7.95	0	0	
2/8/2024	-	7.52	0	0	
5/8/2024	-	7.74	0	0	
8/6/2024	-	8.35	0	0	
11/14/2024	-	9.17	0	0	
Maximum	-	9.28	0	0	
Minimum	-	6.33	0	0	
Average	-	8.08	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	8.62	0	0	
5/18/2022	-	8.18	0	0	
8/11/2022	-	10.45	0	0	
11/14/2022	-	10.69	0	0	
2/8/2023	-	9.91	0	0	
5/16/2023	13.68	13.69	0.01	0	
Not measured 8/14/2023					
11/13/2023	-	9.45	0	0	
2/8/2024	-	9.01	0	0	
5/8/2024	-	9.33	0	0	
8/6/2024	-	9.83	0	0	
11/14/2024	-	10.71	0	0	
Maximum	13.68	13.69	0.01	0	
Minimum	13.68	8.18	0.00	0	
Average	13.68	9.99	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	8.75	0	0	
5/18/2022	-	8.54	0	0	
8/11/2022	-	9.12	0	0	
11/14/2022	-	9.35	0	0	
2/8/2023	-	8.38	0	0	
5/16/2023	-	8.33	0	0	
8/14/2023	-	8.14	0	0	
11/13/2023	8.20	8.21	0.01	0	
2/8/2024	-	7.7	0	0	
5/8/2024	-	8.04	0	0	
8/6/2024	-	11.58	0	0	
11/14/2024	-	9.02	0	0	
Maximum	8.20	11.58	0.01	0	
Minimum	8.20	7.70	0.00	0	
Average	8.20	8.76	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	15.08	15.09	0.01	0	
5/18/2022	-	10.88	0	0	
8/11/2022	15.35	15.39	0.04	0	
11/14/2022	-	15.6	0	0	
2/8/2023	14.58	14.59	0.01	0	
5/16/2023	14.68	14.69	0.01	0	
8/14/2023	14.21	14.22	0.01	0	
11/13/2023	14.42	14.43	0.01	0	
2/8/2024	12.86	12.87	0.01	0	
5/8/2024	14.22	14.23	0.01	0	
8/6/2024	14.87	14.88	0.01	0	
11/14/2024	15.55	15.56	0.01	0	
Maximum	15.55	15.60	0.04	0	
Minimum	12.86	10.88	0.00	0	
Average	14.58	14.37	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2022	15.41	15.43	0.02	0	Drum-1.32
1/11/2022	15.36	15.44	0.08	0	drum-1.13
1/20/2022	15.38	15.4	0.02	0	Drum- 1.14
1/27/2022	15.38	16.5	1.12	0	Drum- 1.30 Pump housing needs to be replaced. currently working in solution
2/1/2022	15.45	16.6	1.15	0	Drum- 1.29
2/8/2022	15.33	15.75	0.42	0	Drum-1.31
2/9/2022	15.33	15.75	0.42	0	
2/18/2022	15.45	15.69	0.24	0	Drum-1.85
2/23/2022	15.42	15.52	0.1	0	Drum-2.09
3/4/2022	15.41	15.85	0.44	0	Drum-2.35
3/10/2022	15.35	15.4	0.05	0	Drum-2.31 Started new drum
3/15/2022	15.19	15.28	0.09	0	Drum-0.18
3/22/2022	15.25	15.26	0.01	0	Drum- 3.24 (new drum)
3/29/2022	15.11	15.35	0.24	0	Drum-0.16
*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated '1.32 ft'. Approximately 26.8 gallons of free product recovered during the period 1/4/2022 through 3/29/2022					
4/5/2022	14.95	15.11	0.16	0	Drum-0.15
4/12/2022	14.55	14.6	0.05	0	Drum- 0.19
4/21/2022	14.55	14.72	0.17	0	Drum-0.15
4/29/2022	14.38	14.39	0.01	0	Drum-0.20
5/8/2022	14.78	14.85	0.07	0	Drum-0.20
5/13/2022	14.86	14.98	0.12	0	Drum-0.19
5/18/2022	14.99	15.11	0.12	0	
5/19/2022	14.99	15.11	0.12	0	Drum-0.18
5/23/2022	15.3	15.44	0.14	0	Drum-0.18
6/3/2022	14.79	15.01	0.22	0	Drum-0.19
6/10/2022	14.81	15.03	0.22	0	Drum-0.19
6/16/2022	14.88	15	0.12	0	Drum-0.19
6/24/2022	14.98	15.12	0.14	0	Drum-0.19
6/28/2022	16.05	16.1	0.05	0	Drum-0.21
Approximately 1 gallon of free product recovered during the period 4/5/2022 through 6/28/2022.					
7/8/2022	15.28	16	0.72	0	Drum-0.19
7/15/2022	15.51	15.52	0.01	0	Drum-0.6
7/19/2022	15.60	15.9	0.3	0	Drum-0.65
7/27/2022	15.50	15.51	0.01	0	Drum- 1.21
8/4/2022	15.61	15.62	0.01	0	Drum-1.62
8/11/2022	15.65	15.66	0.01	0	
8/12/2022	15.65	15.66	0.01	0	Drum-2.07

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
8/18/2022	15.65	16	0.35	0	Drum-2.31
8/25/2022	16.55	16.66	0.11	0	Drum-2.30
9/1/2022	15.98	15.99	0.01	0	Drum-0.82
9/9/2022	15.81	15.82	0.01	0	Drum- 1.62
9/13/2022	15.68	15.69	0.01	0	Drum-1.97
9/16/2022	15.78	15.9	0.12	0	Full ..... Drum changed
9/26/2022	15.83	15.84	0.01	0	Drum- 0.52
Approximately 56.2 gallons of free product recovered during the period 7/8/2022 through 9/26/2022.					
10/3/2022	15.98	15.99	0.01	0	Drum-1.09
10/10/2022	15.85	15.86	0.01	0	Drum-1.53
10/17/2022	15.84	15.85	0.01	0	Drum- 1.94
10/28/2022	15.89	15.9	0.01	0	Drum- 2.38 (start new drum)
11/1/2022	15.95	15.96	0.01	0	Drum-0.5
11/9/2022	16.05	16.06	0.01	0	Drum-1.15
11/21/2022	15.94	15.95	0.01	0	Drum-1.95
12/9/2022	15.78	15.79	0.01	0	Drum-0.70
12/15/2022	15.74	15.75	0.01	0	Drum- 0.9
12/21/2022	16.52	16.53	0.01	0	Drum-1.07
12/28/2022	15.31	15.32	0.01	0	Drum-1.10
Approximately 47.8 gallons of free product recovered during the period 10/3/2022 through 12/28/2022.					
1/4/2023	15.16	15.17	0.01	0	Drum-1.11
1/12/2023	15.14	15.15	0.01	0	Drum-1.15
1/14/2023	15.18	15.19	0.01	0	Drum-1.17
1/24/2023	15.13	15.14	0.01	0	Drum-1.16
2/1/2023	14.81	14.82	0.01	0	Drum-1.17
2/6/2023	14.68	14.69	0.01	0	Drum-1.15
2/22/2023	15.01	15.02	0.01	0	Drum-1.19
2/23/2023	15.35	15.36	0.01	0	Drum-1.22
2/27/2023	15.53	15.54	0.01	0	Drum-1.20
3/8/2023	15.28	15.29	0.01	0	Drum-1.24
3/12/2023	15.13	15.14	0.01	0	
3/13/2023	15.21	15.22	0.01	0	Drum-1.25
Approximately 3 gallons of free product recovered during the period 1/4/2023 through 3/13/2023.					
4/3/2023	15.28	15.29	0.01	0	Drum-1.37
4/14/2023	15.39	15.4	0.01	0	Drum-1.43
4/20/2023	15.42	15.43	0.01	0	Drum-1.52
4/27/2023	15.26	15.27	0.01	0	Drum-1.60
5/10/2023	14.90	14.91	0.01	0	Drum-1.64

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
5/14/2023	14.86	14.87	0.01	0	Drum-1.65
5/16/2023	14.99	15.00	0.01	0	
5/23/2023	15.26	15.27	0.01	0	Drum-1.69
5/31/2023	15.30	15.31	0.01	0	Drum-1.70
6/6/2023	15.34	15.38	0.04	0	Drum-1.69
6/14/2023	15.55	15.56	0.01	0	Drum-1.90
6/23/2023	15.56	15.57	0.01	0	Drum-2.14
6/29/2023	15.48	15.49	0.01	0	Drum-2.15
Approximately 15.6 gallons of free product recovered during the period 4/3/2023 through 6/29/2023.					
7/5/2023	15.5	15.51	0.01	0	drum-2.17
7/11/2023	14.8	14.81	0.01	0	drum-2.35
7/19/2023	14.68	14.69	0.01	0	
7/26/2023	14.65	14.66	0.01	0	Drum-0.02
8/1/2023	14.7	14.71	0.01	0	Drum-0.03
8/11/2023	14.86	14.87	0.01	0	Drum-0.08
8/14/2023	14.91	14.92	0.01	0	
8/17/2023	14.9	14.91	0.01	0	Drum-0.09
8/23/2023	14.83	14.84	0.01	0	Drum-0.1
8/29/2023	14.83	14.84	0.01	0	Drum-0.15
9/6/2023	15.33	15.34	0.01	0	Drum-0.20
9/15/2023	15.12	15.26	0.14	0	Drum-0.26
9/19/2023	15.25	15.26	0.01	0	Drum-0.29
9/28/2023	14.48	14.49	0.01	0	Drum- 0.39
Approximately 14.8 gallons of free product recovered during the period 7/5/2023 through 9/28/2023.					
10/3/2023	14.45	14.46	0.01	0	Drum-0.38
10/11/2023	14.41	14.42	0.01	0	Drum-0.39
10/17/2023	14.62	14.63	0.01	0	Drum-0.45
10/23/2023	14.63	14.64	0.01	0	Drum-0.46
11/7/2023	14.66	14.67	0.01	0	drum 2.74
11/13/2023	14.71	14.72	0.01	0	
11/20/2023	15.01	15.02	0.01	0	drum 0.54
11/28/2023	14.81	14.82	0.01	0	top of oil (drum) 2.64
12/8/2023	14.81	14.82	0.01	0	drum 0.56
12/13/2023	14.72	14.73	0.01	0	drum 0.67
12/20/2023	14.34	14.35	0.01	0	drum 0.85
12/27/2023	14.25	14.26	0.01	0	drum 0.9
Approximately 65.8 gallons of free product recovered during the period 10/3/2023 through 12/27/2023.					
1/4/2024	14.25	14.26	0.01	0	drum 0.74

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/12/2024	14.02	14.03	0.01	0	drum 0.73
1/18/2024	14.05	14.09	0.04	0	drum 0.76
1/24/2024	14.31	14.34	0.03	0	drum 0.75
2/2/2024	14.01	14.06	0.05	0	drum 2.45
2/7/2024	14.45	14.46	0.01	0	drum 0.77
2/8/2024	13.22	13.23	0.01	0	
2/12/2024	14.34	14.44	0.1	0	drum 0.72
2/23/2024	14.4	14.42	0.02	0	drum 0.74
3/1/2024	14.81	14.86	0.05	0	drum 0.70
3/7/2024	14.3	14.35	0.05	0	drum 0.75
3/11/2024	14.05	14.06	0.01	0	drum 0.76
3/21/2024	14.32	14.36	0.04	0	drum 0.69
3/26/2024	14.02	14.06	0.04	0	drum 0.71
Free product not recovered during reporting period 1/4/2024 through 3/26/2024.					
4/5/2024	13.81	13.82	0.01	0	drum 0.69
4/10/2024	13.88	13.92	0.04	0	drum 0.75
4/16/2024	13.95	14.06	0.11	0	drum 0.75
4/22/2024	14.11	14.52	0.41	0	drum 0.74
5/3/2024	14.35	14.69	0.34	0	drum 0.78
5/8/2024	14.58	14.81	0.23	0	drum 0.75
5/16/2024	14.68	14.91	0.23	0	drum 0.75
5/23/2024	14.65	14.98	0.33	0	drum 0.78
5/28/2024	14.75	15.16	0.41	0	drum 0.82
6/5/2024	14.61	15.00	0.39	0	drum 0.78
6/11/2024	14.89	15.2	0.31	0	drum 0.78
6/20/2024	14.95	15.21	0.26	0	drum 0.78
6/25/2024	15.05	15.44	0.39	0	drum 0.78
Free product not recovered during the period 4/5/2024 through 6/25/2024.					
7/1/2024	15.11	15.59	0.48	0	well casing is cracked
7/12/2024	15.05	15.5	0.45	0	
7/16/2024	15.24	15.66	0.42	0	
7/24/2024	15.22	15.59	0.37	0	
7/29/2024	14.96	15.59	0.63	0	
8/6/2024	15.15	15.55	0.4	0	
8/13/2024	14.7	15.38	0.68	1.25	
8/19/2024	14.55	14.95	0.4	0	
8/30/2024	14.65	15.12	0.47	0	
9/5/2024	14.84	15.29	0.45	0	
9/9/2024	15.01	15.45	0.44	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI2-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
9/20/2024	15.1	15.55	0.45	0	
9/25/2024	15.15	16.11	0.96	1.5	
10/1/2024	15.25	15.61	0.36	0	
10/10/2024	15.41	15.82	0.41	0	
10/14/2024	15.35	15.72	0.37	0	
10/24/2024	15.45	16.66	1.21	1.5	
10/30/2024	15.61	15.99	0.38	0	
11/8/2024	15.6	17.56	1.96	2	
11/14/2024	15.65	17.28	1.63	0	
11/18/2024	15.64	17.39	1.75	0	
11/25/2024	15.69	17.25	1.56	0	
12/6/2024	15.84	17.46	1.62	0	
12/13/2024	15.74	16.94	1.2	0	
12/18/2024	15.53	16.53	1	0	
Maximum	16.55	17.56	1.96	NA	
Minimum	13.22	13.23	0.01	NA	
Average	15.07	15.28	0.21	NA	
Total NAPL Removed (gal)				237.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.28	0	0	
5/18/2022	-	10.88	0	0	
8/11/2022	-	17.8	0	0	
11/14/2022	-	11.88	0	0	
2/8/2023	-	10.81	0	0	
5/16/2023	10.80	10.81	0.01	0	
8/14/2023	-	10.75	0	0	
11/13/2023	-	10.59	0	0	
2/8/2024	-	8.99	0	0	
5/8/2024	-	10.36	0	0	
8/6/2024	-	10.99	0	0	
11/14/2024	-	11.66	0	0	
Maximum	10.80	17.80	0.01	0	
Minimum	10.80	8.99	0.00	0	
Average	10.80	11.40	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	13.89	0	0	
5/26/2022	-	13.68	0	0	
8/11/2022	-	11.05	0	0	
11/14/2022	11.42	11.61	0.19	0	
2/8/2023	13.53	13.54	0.01	0	
5/16/2023	-	13.59	0	0	
8/14/2023	-	12.94	0	0	
11/13/2023	-	13.31	0	0	
2/8/2024	-	12	0	0	
5/8/2024	-	9.92	0	0	
8/6/2024	-	10.53	0	0	
11/14/2024	-	11.31	0	0	
Maximum	13.53	13.89	0.19	0	
Minimum	11.42	9.92	0.00	0	
Average	12.48	12.28	0.02	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured 2/9/2022					
Not measured 5/18/22					
Not measured 8/11/22					
Not measured 11/14/22					
Not measured 2/8/2022					
Not measured 5/16/2023					
Not measured 8/14/2023					
Not measured 11/13/2023					
Not measured 2/7/2024					
Not measured 5/8/2024					
Not measured 8/6/2024					
Not measured 11/14/2024					
Maximum	-	-	-	-	
Minimum	-	-	-	-	
Average	-	-	-	-	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	16.78	16.88	0.1	0	
5/26/2022	16.5	16.51	0.01	0	
8/11/2022	17.05	17.12	0.07	0	
11/14/2022	17.41	17.59	0.18	0	
2/8/2023	13.26	13.27	0.01	0	
5/16/2023	-	16.35	0	0	
8/14/2023	16.12	16.13	0.01	0	
11/13/2023	-	16.05	0	0	
2/8/2024	-	15.02	0	0	
5/8/2024	15.91	15.92	0.01	0	
8/6/2024	-	16.65	0	0	
11/14/2024	-	-	-	-	Dry at 16.5 ft.
Maximum	17.41	17.59	0.18	0	
Minimum	13.26	13.27	0.00	0	
Average	16.15	16.14	0.04	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	14.39	14.4	0.01	0	
2/9/2022	-	14.16	0	0	
3/10/2022	14.03	14.04	0.01	0	
4/7/2022	13.71	13.72	0.01	0	
5/13/2022	-	8.38	0	0	
6/16/2022	-	8.42	0	0	
7/27/2022	-	8.4	0	0	
8/11/2022	-	8.39	0	0	
9/13/2022	-	8.42	0	0	
10/10/2022	-	8.45	0	0	
11/9/2022	-	5.6	0	0	
12/9/2022	-	8.38	0	0	
1/4/2023	-	5.61	0	0	
2/6/2023	-	5.65	0	0	
3/8/2023	11.13	11.19	0.06	0	
4/3/2023	11.19	11.2	0.01	0	
5/10/2023	10.76	10.84	0.08	0	
6/16/2023	10.85	10.96	0.11	0	
7/11/2023	13.32	13.33	0.01	0	
8/17/2023	10.6	10.65	0.05	0	
9/6/2023	10.95	11.04	0.09	0	
10/11/2023	10.31	10.39	0.08	0	
11/7/2023	10.52	10.58	0.06	0	
12/13/2023	10.55	10.56	0.01	0	
1/4/2024	10.25	10.26	0.01	0	
2/7/2024	10.2	10.21	0.01	0	
3/11/2024	10.01	10.05	0.04	0	
4/10/2024	9.81	9.99	0.18	0	
5/8/2024	10.54	10.58	0.04	0	
6/11/2024	10.71	10.73	0.02	0	
7/1/2024	11.03	11.04	0.01	0	
8/6/2024	-	12.65	0	0	
9/5/2024	10.81	10.84	0.03	0	
10/1/2024	11.21	11.26	0.05	0	
11/8/2024	11.75	11.95	0.2	0	
11/14/2024	11.69	11.84	0.15	0	
12/6/2024	11.76	12.15	0.39	0	
Maximum	14.39	14.40	0.39	0	
Minimum	9.81	5.60	0.00	0	
Average	11.28	10.44	0.05	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	16.02	16.03	0.01	0	
5/26/2022	-	15.08	0	0	
8/11/2022	-	16.91	0	0	
11/14/2022	16.68	16.69	0.01	0	
2/8/2023	14.62	14.63	0.01	0	
5/16/2023	15.47	15.48	0.01	0	
8/14/2023	16.10	16.11	0.01	0	
11/13/2023	15.32	15.33	0.01	0	
2/8/2024	-	14.46	0	0	
5/8/2024	15.08	15.09	0.01	0	
8/6/2024	-	16.39	0	0	
11/14/2024	17.24	17.25	0.01	0	
Maximum	17.24	17.25	0.01	0	
Minimum	14.62	14.46	0.00	0	
Average	15.82	15.79	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2022	16.65	16.71	0.06	0	Drum- 0.75
1/11/2022	16.98	17.19	0.21	0	drum-0.74
1/20/2022	16.72	16.84	0.12	0	Drum-0.74
1/27/2022	16.5	17.18	0.68	0	Drum- 0.75
2/1/2022	16.7	16.75	0.05	0	Drum-0.90
2/8/2022	16.45	16.48	0.03	0	Drum-0.95
2/18/2022	16.48	16.49	0.01	0	Drum-0.89
2/23/2022	16.4	16.45	0.05	0	Drum-0.92
3/4/2022	16.21	16.22	0.01	0	Drum- 0.87
3/10/2022	16.12	16.42	0.3	0	Drum-0.89
3/15/2022	15.95	16.19	0.24	0	Drum-0.88
3/22/2022	16.75	16.76	0.01	0	replaced pump housing
3/29/2022	16.08	16.09	0.01	0	Drum-1.13
*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated 'drum 0.48 ft'. Total amount of Free Product Recovered between 1/4/2022 and 3/29/2022 = 13 gallons from pump					
4/5/2022	15.88	15.89	0.01	0	Drum-1.26
4/12/2022	15.12	15.13	0.01	0	Drum- 1.26
4/21/2022	15.12	15.13	0.01	0	Drum-1.25
4/29/2022	15.05	15.06	0.01	0	Drum-1.26
5/8/2022	15.95	15.96	0.01	0	Drum-1.25
5/13/2022	15.92	15.93	0.01	0	Drum-1.33
5/19/2022	16.22	16.23	0.01	0	Drum-1.36
5/23/2022	16.22	16.23	0.01	0	Drum-1.34
6/3/2022	15.94	15.95	0.01	0	Drum-1.41
6/10/2022	15.94	15.95	0.01	0	Drum-1.41
6/16/2022	16.17	16.18	0.01	0	Drum-1.41
6/24/2022	12.32	12.46	0.14	0	
6/28/2022	16.4	16.42	0.02	0	Drum-1.45
Total amount of Free Product Recovered between 4/5/2022 and 6/28/2022 = 6.4 gallons from pump					
7/8/2022	16.51	16.52	0.01	0	Drum-1.47
7/15/2022	16.73	16.74	0.01	0	Drum-1.49
7/19/2022	16.38	16.39	0.01	0	Drum-1.50
7/27/2022	16.80	16.81	0.01	0	Drum- 1.62
8/4/2022	16.88	16.89	0.01	0	Drum-1.71
8/12/2022	17.04	17.05	0.01	0	Drum-1.80
8/18/2022	17.08	17.1	0.02	0	Drum-1.85
8/26/2022	17.15	17.16	0.01	0	Drum-1.94
9/1/2022	17.22	17.23	0.01	0	Drum-1.95
9/9/2022	17.18	17.19	0.01	0	Drum-1.99
9/13/2022	17.12	17.13	0.01	0	Drum-2.03
9/20/2022	17.15	17.16	0.01	0	Drum-2.08
9/26/2022	17.18	17.19	0.01	0	Drum-2.25
Total amount of Free Product Recovered between 7/8/2022 and 9/26/2022 = 16 gallons from pump					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/3/2022	17.27	17.28	0.01	0	Drum-2.19
10/10/2022	17.18	17.19	0.01	0	Drum-2.28
10/17/2022	17.1	17.11	0.01	0	Drum-2.50
10/28/2022	17.38	17.39	0.01	0	Drum- 3.05
11/1/2022	17.26	17.27	0.01	0	Drum-0.13
11/9/2022	16.41	16.42	0.01	0	Drum-0.16
11/14/2022	17.32	17.33	0.01	0	Drum- 0.23
11/21/2022	17.2	17.21	0.01	0	Drum-0.27
12/9/2022	16.78	16.79	0.01	0	Drum-0.44
12/15/2022	16.56	16.57	0.01	0	Drum-0.51
12/21/2022	16.25	16.26	0.01	0	Drum-0.53
12/28/2022	16.01	16.02	0.01	0	Drum-0.56
Total amount of Free Product Recovered between 10/3/2022 and 12/28/2022 = 16.2 gallons from pump					
1/4/2023	15.98	15.99	0.01	0	Drum- 0.52
1/12/2023	15.85	15.86	0.01	0	Drum-0.55
1/19/2023	15.81	15.82	0.01	0	
1/24/2023	15.48	15.49	0.01	0	Drum-0.52
2/1/2023	14.72	14.73	0.01	0	Drum-0.51
2/6/2023	15.48	15.49	0.01	0	Drum-0.52
2/17/2023	15.45	15.46	0.01	0	Drum-0.51
2/23/2023	16.28	16.29	0.01	0	Drum-0.55
2/27/2023	16.38	16.39	0.01	0	Drum-0.53
3/8/2023	16.28	16.29	0.01	0	Drum-0.52
3/13/2023	16.09	16.10	0.01	0	Drum-0.55
3/21/2023	15.82	15.83	0.01	0	Drum-0.54
Free product not removed from well FA4-8 between 1/4/2023 and 3/21/2023.					
4/3/2023	16.25	16.26	0.01	0	Drum-0.52
4/14/2023	16.41	16.42	0.01	0	Drum-0.58
4/20/2023	16.55	16.56	0.01	0	Drum-0.64
4/27/2023	16.31	16.32	0.01	0	Drum-0.55
5/10/2023	15.78	15.79	0.01	0	Drum-0.57
5/19/2023	15.51	15.52	0.01	0	Drum-0.59
5/23/2023	16.24	16.25	0.01	0	Drum-0.56
5/31/2023	16.38	16.39	0.01	0	Drum-0.55
6/6/2023	16.48	16.49	0.01	0	
6/14/2023	16.64	16.65	0.01	0	Drum-0.55
6/23/2023	16.79	16.8	0.01	0	Drum-0.55
6/29/2023	16.65	16.69	0.04	0	Drum-0.56
Free product not removed from well FA4-8 between 4/3/2023 and 6/29/2023.					
7/11/2023	16.22	16.23	0.01	0	Drum-0.62
7/19/2023	15.84	15.85	0.01	0	Drum-0.59
7/26/2023	16	16.01	0.01	0	Drum-0.59
8/1/2023	15.97	15.98	0.01	0	Drum-0.58

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
8/11/2023	16.12	16.13	0.01	0	Drum-0.59
8/17/2023	16.1	16.11	0.01	0	Drum-0.59
8/23/2023	16.04	16.07	0.03	0	Drum-0.59
8/29/2023	16.08	16.1	0.02	0	Drum-0.64
9/6/2023	16.24	16.25	0.01	0	Drum-0.57
9/15/2023	16.4	16.7	0.3	0	Drum-0.6
9/19/2023	16.41	16.42	0.01	0	Drum-0.64
9/28/2023	14.46	14.47	0.01	0	Drum-0.59
Free product not removed from well FA4-8 between 7/11/2023 and 9/28/2023.					
10/3/2023	14.84	15.45	0.61	0	Drum-0.59
10/11/2023	15.42	15.43	0.01	0	Drum-0.62
10/17/2023	15.7	15.71	0.01	0	Drum-0.65
10/23/2023	15.55	15.56	0.01	0	Drum-0.61
11/7/2023	15.71	15.72	0.01	0	
11/13/2023	16.9	16.91	0.01	0	
11/20/2023	16.1	16.12	0.02	0	
11/25/2023	16.01	16.02	0.01	0	
11/28/2023	16.01	16.02	0.01	0	
12/8/2023	15.58	15.69	0.11	0	
12/13/2023	15.49	15.75	0.26	0	
12/20/2023	13.61	13.85	0.24	0	
12/27/2023	13.55	13.85	0.3	0	
Free product not removed from well FA4-8 between 10/3/2023 and 12/27/2023.					
1/4/2024	13.82	14.21	0.39	0	
1/12/2024	13.75	14.02	0.27	0	
1/18/2024	14.25	14.41	0.16	0	
1/24/2024	14.54	14.91	0.37	0	
2/2/2024	13.65	14.01	0.36	0	
2/7/2024	14.28	14.68	0.4	0	
2/12/2024	14.96	15.15	0.19	0	
2/23/2024	14.52	14.65	0.13	0	
3/1/2024	14.44	14.46	0.02	0	
3/11/2024	8.72	8.73	0.01	0	
3/21/2024	14.32	14.4	0.08	0	
3/26/2024	14.21	14.35	0.14	0	
4/5/2024	12.52	12.98	0.46	0.75	
4/10/2024	13.88	13.89	0.01	0	
4/16/2024	13.78	13.79	0.01	0	
4/22/2024	14.52	14.53	0.01	0	
5/3/2024	15.21	15.23	0.02	0	
5/8/2024	15.46	15.47	0.01	0	
5/16/2024	15.39	15.44	0.05	0	
5/23/2024	15.78	15.79	0.01	0	
5/28/2024	15.78	15.79	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
6/5/2024	15.87	15.88	0.01	0	
6/11/2024	16.01	16.02	0.01	0	
6/20/2024	16.08	16.09	0.01	0	
6/25/2024	16.25	16.26	0.01	0	
7/1/2024	16.25	16.26	0.01	0	
7/12/2024	16.35	16.36	0.01	0	
7/16/2024	16.4	16.41	0.01	0	
7/24/2024	16.38	16.39	0.01	0	
7/29/2024	16.24	16.25	0.01	0	
8/6/2024	16.31	16.32	0.01	0	
Spill Buster™formerly located in well, removed in 2023. No comments during report period between 11/27/2023 and 8/6/2024 re. installation of Spill Buster or drum measurements.					
8/13/2024	-	15.95	0	0	drum 0.97
8/19/2024	-	15.81	0	0	drum 0.97
8/30/2024	-	15.92	0	0	drum 1.06
9/5/2024	-	16.11	0	0	drum 1.02
9/9/2024	-	15.15	0	0	drum 1.07
9/20/2024	-	16.34	0	0	drum 1.09
9/25/2024	-	16.38	0	0	drum 1.07
Belt skimmer installed in well. Height of drum is assumed to be approximately 3.0 ft and equal to approximately 55 gallons. Approximately 20.0 gallons of ree product removed from well FA4-8 during period between 8/13/2024 and 9/25/2024.					
10/1/2024	-	16.45	0	0	drum 1.1
10/10/2024	-	16.63	0	0	drum 1.05
10/14/2024	-	16.59	0	0	drum 1.06
10/24/2024	-	16.96	0	0	drum 1.17
10/30/2024	-	16.97	0	0	drum 1.26
11/8/2024	-	17.1	0	0	drum 1.43
11/14/2024	17.01	17.02	0.01	0	bottom 20.11
11/18/2024	17.01	17.65	0.64	0	
11/25/2024	16.95	17.11	0.16	0	
12/6/2024	17.12	18.51	1.39	0	
12/13/2024	16.76	18.51	1.75	0	
12/18/2024	16.64	17.43	0.79	0	
Approximately 6.0 gallons of ree product removed from well FA4-8 during period between 10/1/2024 and 12/18/2024.					
Maximum	17.38	18.51	1.75	NA	
Minimum	8.72	8.73	0.00	NA	
Average	15.90	16.02	0.08	NA	
Total NAPL Removed (gal)				78.35	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.55	6.56	0.01	0	
2/9/2022	7.31	7.36	0.05	0	
3/10/2022	6.85	6.92	0.07	0	
4/7/2022	6.25	6.46	0.21	0	
5/13/2022	6.79	6.83	0.04	0	
6/16/2022	7.05	7.21	0.16	0	
7/27/2022	8.35	8.51	0.16	0	
8/11/2022	7.80	9.25	1.45	0.5	
9/13/2022	8.73	8.9	0.17	0	
10/10/2022	8.89	8.92	0.03	0	
11/9/2022	9.21	9.39	0.18	0	
12/9/2022	8.40	8.58	0.18	0	
1/4/2023	6.58	6.77	0.19	0	
2/6/2023	6.58	7.50	0.92	0	
3/8/2023	6.78	7.05	0.27	0	
4/3/2023	7.11	7.18	0.07	0	
5/10/2023	6.58	6.59	0.01	0	
6/16/2023	6.59	6.61	0.02	0	
7/11/2023	6.39	6.9	0.51	0	
8/17/2023	7.28	7.55	0.27	0	
11/13/2023	6.95	7.6	0.65	0	
12/13/2023	5.86	6.01	0.15	0	
1/4/2024	5.8	7.31	1.51	0	
2/7/2024	7.25	7.3	0.05	0	
3/11/2024	4.75	5.99	1.24	0	
4/10/2024	5.31	5.79	0.48	0	
5/8/2024	6.42	6.81	0.39	0	
6/11/2024	7.23	8.88	1.65	0	
7/1/2024	7.72	9	1.28	0	
8/6/2024	8.11	9.25	1.14	0.5	
9/5/2024	7.45	7.55	0.1	0	
10/1/2024	8.11	8.44	0.33	0	
11/8/2024	8.81	9.05	0.24	0	
11/14/2024	-	8.98	0	0	
11/18/2024	8.82	8.83	0.01	0	
11/25/2024	9.05	9.06	0.01	0	
12/6/2024	9.24	9.25	0.01	0	
12/13/2024	8.88	8.89	0.01	0	
12/18/2024	8.61	8.62	0.01	0	
Maximum	9.24	9.39	1.65	0.50	
Minimum	4.75	5.79	0.00	0.00	
Average	7.38	7.79	0.36	0.03	
Total NAPL Removed (gal)				1.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured 2/9/2022					
Not measured 5/18/22					
Not measured 8/11/22					
Not measured 11/14/22					
Not measured 2/8/2022					
Not measured 5/16/2023					
Not measured 8/14/2023					
Not measured 11/13/2023					
Not measured 2/7/2024					
Not measured 5/8/2024					
Not measured 8/6/2024					
Not measured 11/14/2024					
Maximum	-	-	-	-	
Minimum	-	-	-	-	
Average	-	-	-	-	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/11/2022	11.58	11.65	0.07	0	
1/20/2022	11.48	11.58	0.1	0	
1/27/2022	11.13	11.35	0.22	0.25	
2/1/2022	11.41	11.44	0.03	0	
2/8/2022	11.3	11.32	0.02	0	
2/9/2022	11.16	11.18	0.02	0	
2/18/2022	11.19	11.21	0.02	0	
2/23/2022	11.08	11.09	0.01	0	
3/4/2022	11	11.01	0.01	0	
3/10/2022	10.72	10.73	0.01	0	
3/15/2022	10.58	10.59	0.01	0	
3/22/2022	10.58	10.59	0.01	0	
3/29/2022	10.5	10.51	0.01	0	
4/5/2022	10.24	10.25	0.01	0	
4/12/2022	9.83	9.84	0.01	0	
4/21/2022	9.82	9.83	0.01	0	
4/29/2022	9.68	9.69	0.01	0	
5/8/2022	10.5	10.51	0.01	0	
5/13/2022	10.49	10.5	0.01	0	
5/19/2022	10.79	10.81	0.02	0	
5/23/2022	10.88	10.89	0.01	0	
5/26/2022	10.95	10.96	0.01	0	
6/3/2022	10.19	10.2	0.01	0	
6/10/2022	10.43	10.44	0.01	0	
6/16/2022	10.65	10.66	0.01	0	
7/8/2022	11.25	11.26	0.01	0	
7/15/2022	11.45	11.46	0.01	0	
7/19/2022	11.21	11.23	0.02	0	
7/27/2022	11.71	11.78	0.07	0	
8/4/2022	11.55	11.64	0.09	0	
8/11/2022	11.78	11.95	0.17	0	
8/12/2022	11.71	12.11	0.4	0.63	
8/18/2022	11.9	12.15	0.25	0	
8/25/2022	11.78	12.96	1.18	1.06	
9/1/2022	11.85	12.61	0.76	1.25	
9/9/2022	11.95	12.74	0.79	1.25	
9/13/2022	11.71	12.63	0.92	1	
9/20/2022	11.74	12.52	0.78	1.25	
9/26/2022	11.84	12.02	0.18	0	
10/3/2022	11.83	12.88	1.05	1.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	11.91	12.21	0.3	0.5	
10/17/2022	11.84	13.38	1.54	1.5	
10/28/2022	12.05	13.41	1.36	1.38	
11/1/2022	11.83	12.98	1.15	1.25	
11/9/2022	11.93	13.01	1.08	1.25	
11/14/2022	11.84	13.05	1.21	1.25	
11/21/2022	11.71	13.05	1.34	1.13	
12/9/2022	11.35	12	0.65	0.75	
12/15/2022	11.58	11.65	0.07	0	
12/21/2022	11.42	11.56	0.14	0	
12/28/2022	11.11	11.18	0.07	0	
1/4/2023	10.58	10.59	0.01	0	
1/12/2023	10.86	10.87	0.01	0	
1/19/2023	10.81	10.82	0.01	0	
1/24/2023	10.08	10.09	0.01	0	
2/1/2023	10.28	10.29	0.01	0	
2/6/2023	10.47	10.48	0.01	0	
2/8/2023	10.58	10.63	0.05	0	
2/17/2023	10.41	10.42	0.01	0	
3/8/2023	10.67	10.69	0.02	0	
3/13/2023	10.52	10.53	0.01	0	
3/21/2023	10.64	10.65	0.01	0	
4/3/2023	11.28	11.29	0.01	0	
4/14/2023	11.45	11.46	0.01	0	
4/20/2023	11.49	11.5	0.01	0	
4/27/2023	10.74	10.75	0.01	0	
5/10/2023	10.57	10.58	0.01	0	
5/16/2023	10.92	10.95	0.03	0	
5/19/2023	10.48	10.49	0.01	0	
5/23/2023	11.18	11.19	0.01	0	
5/31/2023	11.18	11.19	0.01	0	
6/6/2023	11.54	11.55	0.01	0	
6/14/2023	11.66	11.67	0.01	0	
6/23/2023	11.78	11.79	0.01	0	
6/29/2023	16.52	16.53	0.01	0	
7/5/2023	16.42	16.43	0.01	0	
7/11/2023	10.56	10.57	0.01	0	
7/19/2023	10.55	10.56	0.01	0	
7/26/2023	10.2	10.21	0.01	0	
8/1/2023	10.61	10.62	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	10.84	10.85	0.01	0	
8/14/2023	10.79	10.80	0.01	0	
8/17/2023	10.55	10.56	0.01	0	
8/23/2023	10.65	10.66	0.01	0	
8/29/2023	10.82	10.83	0.01	0	
9/15/2023	11.33	11.40	0.07	0	
9/19/2023	11.32	11.33	0.01	0	
9/28/2023	9.97	9.98	0.01	0	
10/3/2023	10.03	10.04	0.01	0	
10/11/2023	10.14	10.15	0.01	0	
10/17/2023	10.49	10.5	0.01	0	
10/23/2023	10.13	10.14	0.01	0	
11/7/2023	10.33	10.34	0.01	0	
11/13/2023	10.55	10.56	0.01	0	
11/20/2023	11.00	11.02	0.02	0	
11/28/2023	10.95	10.96	0.01	0	
12/8/2023	10.21	10.22	0.01	0	
12/13/2023	9.92	9.93	0.01	0	
12/20/2023	9.45	9.46	0.01	0	
12/27/2023	9.41	9.42	0.01	0	
1/4/2024	9.7	9.71	0.01	0	
1/12/2024	9.11	9.12	0.01	0	
1/18/2024	9.55	9.56	0.01	0	
1/24/2024	9.95	9.96	0.01	0	
2/2/2024	9.15	9.16	0.01	0	
2/7/2024	9.82	9.83	0.01	0	
2/8/2024	8.52	8.53	0.01	0	
2/12/2024	10.08	10.09	0.01	0	
2/23/2024	9.99	10	0.01	0	
3/1/2024	10.18	10.19	0.01	0	
3/7/2024	10.02	10.03	0.01	0	
3/11/2024	8.72	8.73	0.01	0	
3/21/2024	9.99	10	0.01	0	
3/26/2024	9.79	9.8	0.01	0	
4/5/2024	8.49	8.61	0.12	0	
4/10/2024	9.48	9.49	0.01	0	
4/16/2024	9.48	9.49	0.01	0	
4/22/2024	9.95	9.96	0.01	0	
5/3/2024	10.18	10.19	0.01	0	
5/8/2024	10.35	10.36	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2024	10.31	10.32	0.01	0	
5/23/2024	-	10.13	0	0	
5/28/2024	10.61	10.62	0.01	0	
6/5/2024	10.85	10.86	0.01	0	
6/11/2024	10.92	10.93	0.01	0	
6/20/2024	11.11	11.12	0.01	0	
6/25/2024	11.21	11.23	0.02	0	
7/1/2024	11.28	11.29	0.01	0	
7/12/2024	11.33	11.34	0.01	0	
7/16/2024	11.42	11.43	0.01	0	
7/24/2024	11.36	11.37	0.01	0	
7/29/2024	11.2	11.21	0.01	0	
8/6/2024	11.33	11.34	0.01	0	
8/13/2024	-	10.34	0	0	
8/19/2024	-	10.12	0	0	
8/30/2024	10.54	10.55	0.01	0	
9/5/2024	-	10.78	0	0	
9/9/2024	-	10.94	0	0	
9/20/2024	11.25	11.26	0.01	0	
9/25/2024	11.48	11.49	0.01	0	
10/1/2024	11.5	11.51	0.01	0	
10/10/2024	11.65	11.66	0.01	0	
10/14/2024	11.74	11.75	0.01	0	
10/24/2024	11.81	11.82	0.01	0	
10/30/2024	11.85	11.94	0.09	0	
11/8/2024	11.95	12.19	0.24	0	
11/14/2024	11.95	12.41	0.46	0	
11/18/2024	11.98	12.66	0.68	0	
11/25/2024	11.88	13.09	1.21	0	
12/6/2024	12.05	13.28	1.23	0	
12/13/2024	11.69	12.59	0.9	0	
Maximum	16.52	16.53	1.54	1.50	
Minimum	8.49	8.53	0.00	0.00	
Average	10.92	11.05	0.15	0.11	
Total NAPL Removed (gal)				16.95	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	14.06	14.22	0.16	0	
5/26/2022	13.88	13.91	0.03	0	
8/11/2022	14.60	15.12	0.52	0.75	
11/14/2022	14.70	16.24	1.54	1	
2/8/2023	13.68	13.74	0.06	0	
5/16/2023	13.85	14.35	0.50	0.63	
8/14/2023	13.93	14.05	0.12	0	
11/13/2023	13.65	13.66	0.01	0	
2/8/2024	13	13.01	0.01	0	
5/8/2024	13.26	13.27	0.01	0	
8/6/2024	14.21	14.23	0.02	0	
11/14/2024	14.79	15.02	0.23	0	
11/18/2024	14.86	15.96	1.1	0	
11/25/2024	14.76	16.19	1.43	0	
12/6/2024	14.93	16.02	1.09	0	
12/13/2024	14.69	15.34	0.65	0	
12/18/2024	14.46	14.62	0.16	0	
Maximum	14.93	16.24	1.54	1.00	
Minimum	13.00	13.01	0.01	0.00	
Average	14.19	14.64	0.45	0.14	
Total NAPL Removed (gal)				2.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	10.71	10.72	0.01	0	
1/11/2022	10.89	10.94	0.05	0	
1/20/2022	10.80	10.86	0.06	0	
1/27/2022	10.82	10.83	0.01	0	
2/1/2022	11.00	11.01	0.01	0	
2/8/2022	10.8	10.81	0.01	0	
2/9/2022	10.8	10.81	0.01	0	
2/18/2022	10.38	10.39	0.01	0	
2/23/2022	10.25	10.26	0.01	0	
3/4/2022	10.08	10.09	0.01	0	
3/10/2022	9.79	9.8	0.01	0	
3/15/2022	10.05	10.06	0.01	0	
3/22/2022	9.65	9.66	0.01	0	
3/29/2022	9.54	9.56	0.02	0	
4/5/2022	9.28	9.29	0.01	0	
4/12/2022	0	8.89	0	0	
4/21/2022	8.98	8.99	0.01	0	
4/29/2022	8.85	8.86	0.01	0	
5/8/2022	9.65	9.66	0.01	0	
5/13/2022	9.72	9.73	0.01	0	
5/19/2022	10.05	10.06	0.01	0	
5/23/2022	10.15	10.16	0.01	0	
5/26/2022	10.19	10.2	0.01	0	
6/3/2022	0	9.6	0	0	
6/10/2022	9.76	9.77	0.01	0	
6/16/2022	0	9.95	0	0	
6/24/2022	0	10.14	0	0	
7/8/2022	10.52	10.53	0.01	0	
7/15/2022	10.75	10.76	0.01	0	
7/19/2022	10.50	10.51	0.01	0	
7/27/2022	11.10	11.11	0.01	0	
8/4/2022	10.81	10.82	0.01	0	
8/11/2022	11.32	11.33	0.01	0	
8/12/2022	10.96	10.97	0.01	0	
8/18/2022	11.35	11.36	0.01	0	
8/25/2022	11.08	11.09	0.01	0	
9/1/2022	11.14	11.15	0.01	0	
9/9/2022	11.11	11.12	0.01	0	
9/13/2022	11.05	11.06	0.01	0	
9/20/2022	11.08	11.09	0.01	0	
9/26/2022	11.13	11.14	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	11.24	11.25	0.01	0	
10/10/2022	11.45	11.46	0.01	0	
10/17/2022	11.35	11.5	0.15	0	
10/28/2022	11.62	11.65	0.03	0	
11/1/2022	11.15	11.16	0.01	0	
11/9/2022	11.67	11.81	0.14	0	
11/14/2022	11.04	11.25	0.21	0	
11/21/2022	10.98	10.99	0.01	0	
12/9/2022	10.81	10.83	0.02	0	
12/15/2022	10.91	10.92	0.01	0	
12/21/2022	10.76	10.77	0.01	0	
12/28/2022	10.21	10.24	0.03	0	
1/4/2023	9.67	9.68	0.01	0	
1/12/2023	10.08	10.09	0.01	0	
1/19/2023	10.05	10.07	0.02	0	
1/24/2023	9.21	9.23	0.02	0	
2/1/2023	9.55	9.56	0.01	0	
2/6/2023	9.55	9.56	0.01	0	
2/8/2023	9.71	9.72	0.01	0	
2/17/2023	9.51	9.52	0.01	0	
2/23/2023	10.71	10.72	0.01	0	
2/27/2023	10.74	10.75	0.01	0	
3/8/2023	10.25	10.26	0.01	0	
3/13/2023	10.19	10.20	0.01	0	
3/21/2023	10.11	10.12	0.01	0	
4/3/2023	10.55	10.56	0.01	0	
4/5/2023	10.85	10.86	0.01	0	
4/14/2023	10.80	10.81	0.01	0	
4/27/2023	10.44	10.45	0.01	0	
5/10/2023	10.19	10.2	0.01	0	
5/16/2023	10.34	10.35	0.01	0	
5/19/2023	10.2	10.21	0.01	0	
5/23/2023	10.62	10.63	0.01	0	
5/31/2023	10.84	10.85	0.01	0	
6/6/2023	10.97	10.98	0.01	0	
6/14/2023	11.07	11.08	0.01	0	
6/23/2023	11.22	11.23	0.01	0	
6/29/2023	11.01	11.02	0.01	0	
7/5/2023	10.88	10.89	0.01	0	
7/11/2023	10.05	10.06	0.01	0	
7/19/2023	10.17	10.18	0.01	0	
7/26/2023	9.89	9.9	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/1/2023	10.18	10.19	0.01	0	
8/11/2023	10.52	10.53	0.01	0	
8/14/2023	10.43	10.44	0.01	0	
8/17/2023	10.22	10.23	0.01	0	
8/23/2023	10.25	10.26	0.01	0	
8/29/2023	10.35	10.36	0.01	0	
9/6/2023	10.66	10.67	0.01	0	
9/15/2023	10.71	10.72	0.01	0	
9/19/2023	10.64	10.65	0.01	0	
9/28/2023	9.45	9.46	0.01	0	
10/3/2023	9.52	9.53	0.01	0	
10/11/2023	9.61	9.62	0.01	0	
10/17/2023	9.92	9.93	0.01	0	
10/23/2023	9.51	9.52	0.01	0	
11/7/2023	9.73	9.74	0.01	0	
11/13/2023	9.90	9.91	0.01	0	
11/20/2023	10.31	10.32	0.01	0	
11/28/2023	13.00	13.01	0.01	0	
12/8/2023	9.69	9.70	0.01	0	
12/13/2023	9.38	9.39	0.01	0	
12/20/2023	8.82	8.83	0.01	0	
12/27/2023	8.62	8.63	0.01	0	
1/4/2024	9.25	9.26	0.01	0	
1/12/2024	8.62	8.63	0.01	0	
1/18/2024	8.91	8.92	0.01	0	
1/24/2024	9.42	9.43	0.01	0	
2/2/2024	8.76	8.77	0.01	0	
2/7/2024	9.25	9.26	0.01	0	
2/8/2024	8.43	8.44	0.01	0	
2/12/2024	9.48	9.49	0.01	0	
2/23/2024	9.4	9.41	0.01	0	
3/1/2024	9.62	9.63	0.01	0	
3/7/2024	9.45	9.46	0.01	0	
3/11/2024	-	8.31	0	0	
3/21/2024	-	9.35	0	0	
3/26/2024	-	9.22	0	0	
4/5/2024	-	8.05	0	0	
4/10/2024	-	8.82	0	0	
4/16/2024	-	8.76	0	0	
4/22/2024	-	9.23	0	0	
5/3/2024	-	9.56	0	0	
5/8/2024	-	9.73	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2024	9.68	9.69	0.01	0	
5/23/2024	10.68	10.69	0.01	0	
5/28/2024	-	10.09	0	0	
6/5/2024	-	10.26	0	0	
6/11/2024	-	10.45	0	0	
6/20/2024	-	10.55	0	0	
6/25/2024	-	10.65	0	0	
7/1/2024	10.68	10.69	0.01	0	
7/12/2024	10.78	10.79	0.01	0	
7/16/2024	10.75	10.76	0.01	0	
7/24/2024	10.73	10.74	0.01	0	
7/29/2024	-	10.69	0	0	
8/6/2024	-	10.74	0	0	
8/13/2024	-	9.89	0	0	
8/19/2024	-	9.61	0	0	
8/30/2024	-	10.14	0	0	
9/5/2024	-	10.48	0	0	
9/9/2024	-	10.52	0	0	
9/20/2024	-	10.79	0	0	
9/25/2024	-	10.93	0	0	
10/1/2024	-	10.92	0	0	
10/10/2024	-	11.09	0	0	
10/14/2024	11.15	11.16	0.01	0	
10/24/2024	11.18	11.19	0.01	0	
10/30/2024	-	11.31	0	0	
11/8/2024	11.35	11.36	0.01	0	
11/14/2024	-	14.42	0	0	
11/18/2024	-	11.5	0	0	
11/25/2024	11.43	11.44	0.01	0	
12/6/2024	-	11.61	0	0	
12/13/2024	-	11.18	0	0	
12/18/2024	10.88	10.89	0.01	0	
Maximum	13.00	14.42	0.21	0.00	
Minimum	0.00	8.05	0.00	0.00	
Average	10.00	10.31	0.01	0.00	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	13.35	13.81	0.46	0	
1/11/2022	13.39	13.75	0.36	0	
1/20/2022	13.36	13.72	0.36	0	
1/27/2022	13.06	13.74	0.68	0.88	
2/1/2022	13.42	14.02	0.6	0.75	
2/8/2022	13.26	14.05	0.79	1.06	
2/18/2022	13.21	13.75	0.54	0.63	
2/23/2022	13.08	13.2	0.12	0	
3/4/2022	13.08	13.62	0.54	0.75	
3/10/2022	12.69	13.12	0.43	0	
3/15/2022	12.58	13.24	0.66	0.75	
3/22/2022	12.59	13.05	0.46	0.38	
3/29/2022	12.51	13.19	0.68	0.75	
4/5/2022	12.34	12.99	0.65	0	
4/12/2022	12.03	12.05	0.02	0	
4/21/2022	11.92	11.95	0.03	0	
4/29/2022	11.9	11.92	0.02	0	
5/8/2022	12.42	13	0.58	0.5	
5/13/2022	12.86	12.94	0.08	0	
5/19/2022	12.69	13.3	0.61	0.5	
5/23/2022	12.75	13.51	0.76	0.75	
6/3/2022	12.34	13.08	0.74	0.88	
6/10/2022	12.49	13.08	0.59	1	
6/16/2022	12.65	13.08	0.43	0.75	
6/24/2022	12.88	13.03	0.15	0	
7/8/2022	13.06	13.22	0.16	0	
7/15/2022	13.42	13.88	0.46	0.5	
7/19/2022	12.98	13.16	0.18	0	
7/27/2022	13.45	14.35	0.9	0.5	
8/4/2022	13.35	14.35	1	1.5	
8/12/2022	13.43	14.7	1.27	7	
8/18/2022	13.65	14.65	1	1.25	
8/25/2022	13.98	14.94	0.96	2	
9/1/2022	13.72	14.92	1.2	1.75	
9/9/2022	13.63	14.59	0.96	2	
9/13/2022	13.68	14.12	0.44	0	
9/20/2022	13.58	14.48	0.9	2	
9/26/2022	13.78	13.99	0.21	0	
10/3/2022	13.68	14.81	1.13	1.25	
10/10/2022	13.75	14.000	0.25	0.5	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/17/2022	13.67	15.20	1.53	2	
10/28/2022	13.9	15.44	1.54	1.88	
11/1/2022	13.69	14.89	1.20	1.25	
11/9/2022	13.82	14.91	1.09	1.25	
11/14/2022	13.69	15.24	1.55	1.75	
11/21/2022	13.64	14.58	0.94	1.5	
12/9/2022	13.41	13.58	0.17	0	
12/15/2022	13.48	14.05	0.57	0.75	
12/21/2022	14.000	14.18	0.18	0	
12/28/2022	12.98	13.60	0.62	0.63	
1/4/2023	12.65	13.01	0.36	0	
1/12/2023	12.9	13.3	0.4	0	
1/19/2023	12.85	13.55	0.7	0.88	
1/24/2023	12.15	12.71	0.56	0.75	
2/1/2023	12.11	12.59	0.48	0	
2/6/2023	12.42	13.05	0.63	0.75	
2/17/2023	12.36	12.95	0.59	0	
2/23/2023	13.11	13.48	0.37	0	
2/27/2023	13.04	13.81	0.77	1.13	
3/8/2023	12.77	13.55	0.78	0.38	
3/13/2023	12.74	13.15	0.41	1	
3/21/2023	12.75	13.19	0.44	0	
4/3/2023	13.05	13.69	0.64	0.63	
4/14/2023	13.29	13.61	0.32	0	
4/20/2023	13.32	13.62	0.3	0	
4/27/2023	13.00	13.66	0.66	0	
5/10/2023	12.75	12.98	0.23	0	
5/19/2023	12.62	12.82	0.2	0	
5/23/2023	13.06	13.49	0.43	0	
5/31/2023	13.18	13.81	0.63	0.88	
6/6/2023	13.28	13.59	0.31	0	
6/14/2023	13.38	13.71	0.33	0	
6/23/2023	13.51	14.42	0.91	1.38	
6/29/2023	13.35	13.42	0.07	0	
7/5/2023	13.28	13.35	0.07	0	
7/11/2023	12.72	13.05	0.33	0	
7/19/2023	12.72	13.01	0.29	0	
7/26/2023	12.50	12.91	0.41	0	
8/1/2023	12.67	13.44	0.77	0.75	
8/11/2023	12.88	13.32	0.44	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/17/2023	12.85	13.25	0.40	0	
8/23/2023	12.81	13.53	0.72	0.63	
8/29/2023	12.85	13.21	0.36	0	
9/6/2023	13.09	13.48	0.39	0	
9/15/2023	13.20	14.05	0.85	0	
9/19/2023	13.25	13.95	0.70	0.63	
9/28/2023	12.26	12.31	0.05	0	
10/3/2023	12.25	12.49	0.24	0	
10/11/2023	12.23	12.62	0.39	0	
10/17/2023	12.50	12.95	0.45	0	
10/23/2023	12.23	13.11	0.88	0.75	
11/7/2023	12.45	12.66	0.21	0	
11/13/2023	13.78	13.93	0.15	0	
11/20/2023	12.89	13.28	0.39	0	
11/28/2023	12.81	13.20	0.39	0	
12/8/2023	12.44	12.78	0.34	0	
12/13/2023	12.11	13.18	1.07	0	
12/20/2023	11.85	11.86	0.01	0	
12/27/2023	11.80	11.81	0.01	0	
1/4/2024	11.92	12.09	0.17	0	
1/12/2024	11.43	11.56	0.13	0	
1/18/2024	11.75	11.76	0.01	0	
1/24/2024	12.08	12.11	0.03	0	
2/2/2024	11.55	11.61	0.06	0	
2/7/2024	12	12.26	0.26	0	
2/12/2024	12.16	12.5	0.34	0	
2/23/2024	12.1	12.45	0.35	0	
3/1/2024	12.31	12.54	0.23	0	
3/7/2024	12.02	12.25	0.23	0	
3/11/2024	11.12	11.45	0.33	0	
3/21/2024	12.02	12.36	0.34	0	
3/26/2024	11.95	12.32	0.37	0	
4/5/2024	10.88	11.01	0.13	0	
4/10/2024	11.53	11.71	0.18	0	
4/16/2024	11.54	11.71	0.17	0	
4/22/2024	11.98	12.08	0.10	0	
5/3/2024	12.14	12.36	0.22	0	
5/8/2024	12.28	12.29	0.01	0	
5/16/2024	12.22	12.29	0.07	0	
5/23/2024	12.63	12.82	0.19	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/28/2024	12.65	12.95	0.30	0	
6/5/2024	12.72	13.04	0.32	0	
6/11/2024	12.85	13.06	0.21	0	
6/20/2024	12.88	13.18	0.30	0	
6/25/2024	13.09	13.44	0.35	0	
7/1/2024	13.09	13.55	0.46	0	
7/12/2024	13.12	13.54	0.42	0	
7/16/2024	13	13.4	0.4	0	
7/24/2024	12.39	12.97	0.58	0	
7/29/2024	13.05	13.71	0.66	0.5	
8/6/2024	13.35	13.64	0.29	0	
8/13/2024	12.56	12.94	0.38	0	
8/19/2024	12.33	12.71	0.38	0	
8/30/2024	12.7	13.01	0.31	0	
9/5/2024	12.88	13.22	0.34	0	
9/9/2024	13.01	13.41	0.4	0	
9/20/2024	13.14	13.58	0.44	0	
9/25/2024	13.25	13.71	0.46	0	
10/1/2024	13.28	14.15	0.87	0.75	
10/10/2024	13.43	13.86	0.43	0	
10/14/2024	13.48	13.79	0.31	0	
10/24/2024	13.65	14.08	0.43	0	
10/30/2024	13.64	14.45	0.81	1	
11/8/2024	13.61	14.65	1.04	2	
11/14/2024	13.85	13.95	0.1	0	
11/18/2024	13.61	14.34	0.73	0	
11/25/2024	13.75	15.02	1.27	0	
12/6/2024	13.81	14.92	1.11	0	
12/13/2024	13.64	14.22	0.58	0	
12/18/2024	13.43	13.63	0.2	0	
Maximum	14.00	15.44	1.55	7.00	
Minimum	10.88	11.01	0.01	0.00	
Average	12.86	13.34	0.48	0.38	
Total NAPL Removed (gal)				56.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	10.35	10.39	0.04	0	
1/11/2022	10.42	10.76	0.34	0	
1/20/2022	10.4	10.75	0.35	0	
1/27/2022	10.2	11.09	0.89	1.25	
2/1/2022	10.45	10.81	0.36	1	
2/8/2022	10.25	10.7	0.45	0.5	
2/9/2022	9.86	9.98	0.12	0	
2/18/2022	9.93	10.55	0.62	2.5	
2/23/2022	9.81	10.15	0.34	0.38	
3/4/2022	9.65	9.71	0.06	0	
3/10/2022	9.84	10	0.16	0	
3/15/2022	9.27	9.68	0.41	0.5	
3/22/2022	9.28	9.61	0.33	0.38	
3/29/2022	9.26	9.45	0.19	0	
4/5/2022	9.01	9.17	0.16	0	
4/12/2022	8.5	9.15	0.65	1.25	
4/21/2022	8.51	8.55	0.04	0	
4/29/2022	8.45	8.5	0.05	0	
5/8/2022	9.15	9.33	0.18	0	
5/13/2022	9.23	9.38	0.15	0	
5/19/2022	9.51	9.58	0.07	0	
5/23/2022	9.61	9.62	0.01	0	
5/26/2022	9.61	9.62	0.01	0	
6/3/2022	9.11	9.22	0.11	0	
6/10/2022	9.28	9.35	0.07	0	
6/16/2022	9.45	9.48	0.03	0	
6/24/2022	9.62	9.63	0.01	0	
6/28/2022	10.13	10.15	0.02	0	
7/8/2022	9.85	9.89	0.04	0	
7/15/2022	10.05	10.09	0.04	0	
7/19/2022	9.83	9.89	0.06	0	
7/27/2022	10.50	10.62	0.12	0	
8/4/2022	10.18	10.35	0.17	0	
8/11/2022	10.72	10.96	0.24	0	
8/12/2022	10.31	10.49	0.18	0	
8/18/2022	10.69	11.19	0.5	0.5	
8/25/2022	10.45	10.46	0.01	0	
9/1/2022	10.88	11.58	0.70	1.5	
9/9/2022	10.45	10.54	0.09	0	
9/13/2022	10.38	10.61	0.23	0.38	
9/20/2022	10.31	10.39	0.08	0	
9/26/2022	10.44	10.61	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	10.52	11.15	0.63	1.5	
10/10/2022	10.82	11	0.18	0	
10/17/2022	10.72	11.75	1.03	0	
10/28/2022	10.91	11.85	0.94	1.19	
11/1/2022	10.95	11.04	0.09	0	
11/9/2022	11.04	11.18	0.14	0.25	
11/14/2022	10.48	11.15	0.67	1	
11/21/2022	10.85	11.14	0.29	0.5	
12/9/2022	10.40	10.41	0.01	0	
12/15/2022	10.55	10.59	0.04	0	
12/21/2022	10.37	10.45	0.08	0	
12/28/2022	10.00	10.02	0.02	0	
1/4/2023	9.76	9.94	0.18	0	
1/12/2023	9.75	9.96	0.21	0	
1/19/2023	9.61	9.82	0.21	0	
1/24/2023	8.82	9.28	0.46	0	
2/1/2023	9.18	9.59	0.41	0	
2/6/2023	9.67	9.84	0.17	0	
2/8/2023	9.65	9.84	0.19	0	
2/17/2023	9.55	9.76	0.21	0	
2/23/2023	10.15	10.30	0.15	0	
2/27/2023	9.75	10.15	0.4	0.5	
3/8/2023	9.75	10.03	0.28	0	
3/13/2023	9.69	10.05	0.36	0	
3/21/2023	9.66	9.89	0.23	0	
4/3/2023	10.06	10.21	0.15	0	
4/14/2023	10.25	10.56	0.31	0	
4/20/2023	10.35	10.65	0.3	0	
4/27/2023	9.95	10.04	0.09	0	
5/10/2023	9.61	9.97	0.36	0	
5/16/2023	9.81	9.98	0.17	0	
5/19/2023	9.50	9.92	0.42	0	
5/23/2023	10.11	10.14	0.03	0	
5/31/2023	10.21	10.62	0.41	0	
6/6/2023	10.38	10.71	0.33	0	
6/14/2023	10.41	10.91	0.5	0	
6/23/2023	10.55	10.89	0.34	0	
6/29/2023	10.48	11.02	0.54	0.75	
7/5/2023	10.45	10.52	0.07	0	
7/11/2023	9.59	9.85	0.26	0	
7/19/2023	9.68	9.77	0.09	0	
7/26/2023	9.55	9.79	0.24	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/1/2023	9.72	9.93	0.21	0	
8/11/2023	9.95	9.98	0.03	0	
8/14/2023	9.97	9.99	0.02	0	
8/17/2023	9.80	9.83	0.03	0	
8/23/2023	9.83	9.98	0.15	0	
8/29/2023	9.90	9.91	0.01	0	
9/6/2023	10.11	10.18	0.07	0	
9/15/2023	10.22	10.47	0.25	0	
9/19/2023	10.26	10.43	0.17	0	
9/28/2023	9.01	9.15	0.14	0	
10/3/2023	9.11	9.29	0.18	0	
10/11/2023	9.15	9.36	0.21	0	
10/17/2023	9.48	9.75	0.27	0	
10/23/2023	9.18	9.55	0.37	0	
11/7/2023	9.41	9.74	0.33	0	
11/13/2023	9.55	9.91	0.36	0	
11/20/2023	9.92	10.01	0.09	0	
11/28/2023	9.9	10.01	0.11	0	
12/8/2023	9.31	9.64	0.33	0	
12/13/2023	8.97	9.11	0.14	0	
12/20/2023	8.56	8.57	0.01	0	
12/27/2023	8.42	8.43	0.01	0	
1/4/2024	8.66	8.89	0.23	0	
1/12/2024	8.21	8.29	0.08	0	
1/18/2024	8.42	8.48	0.06	0	
1/24/2024	8.86	8.99	0.13	0	
2/2/2024	8.17	8.28	0.11	0	
2/7/2024	8.69	8.89	0.2	0	
2/8/2024	8.02	8.4	0.38	0	
2/12/2024	9.01	9.19	0.18	0	
2/23/2024	8.88	9	0.12	0	
3/1/2024	9.13	9.21	0.08	0	
3/7/2024	9	9.15	0.15	0	
3/11/2024	7.8	7.94	0.14	0	
3/21/2024	8.8	8.95	0.15	0	
3/26/2024	8.71	8.84	0.13	0	
4/5/2024	7.53	7.59	0.06	0	
4/10/2024	8.27	8.29	0.02	0	
4/16/2024	8.21	8.29	0.08	0	
4/22/2024	8.65	8.78	0.13	0	
5/3/2024	9.13	9.15	0.02	0	
5/8/2024	9.31	9.45	0.14	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2024	9.28	9.32	0.04	0	
5/23/2024	9.56	9.57	0.01	0	
5/28/2024	9.62	9.84	0.22	0	
6/5/2024	9.75	9.76	0.01	0	
6/11/2024	9.83	9.98	0.15	0	
6/20/2024	9.96	9.99	0.03	0	
6/25/2024	10.02	10.08	0.06	0	
7/1/2024	10.11	10.19	0.08	0	
7/12/2024	10.18	10.26	0.08	0	
7/16/2024	10.22	10.35	0.13	0	
7/24/2024	10.2	10.33	0.13	0	
7/29/2024	10.08	10.17	0.09	0	
8/6/2024	10.19	10.2	0.01	0	
8/13/2024	9.51	9.66	0.15	0	
8/19/2024	9.26	9.29	0.03	0	
8/30/2024	9.74	9.78	0.04	0	
9/5/2024	9.95	10.05	0.1	0	
9/9/2024	10.01	10.03	0.02	0	
9/20/2024	10.2	10.21	0.01	0	
9/25/2024	10.28	10.32	0.04	0	
10/1/2024	10.31	10.35	0.04	0	
10/10/2024	10.45	10.56	0.11	0	
10/14/2024	10.52	10.8	0.28	0	
10/24/2024	10.68	10.78	0.1	0	
10/30/2024	10.71	10.84	0.13	0	
11/8/2024	10.75	11.11	0.36	0	
11/14/2024	10.82	11.22	0.4	0	
11/18/2024	10.84	11.38	0.54	0	
11/25/2024	10.76	11.53	0.77	0	
12/6/2024	10.88	11.51	0.63	0	
12/13/2024	10.58	10.94	0.36	0	
12/18/2024	--	10.44	0	0	
Maximum	11.04	11.85	1.03	2.50	
Minimum	7.53	7.59	0.00	0.00	
Average	9.77	9.97	0.20	0.10	
Total NAPL Removed (gal)				15.83	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	14.4	14.85	0.45	0	
1/11/2022	13.12	13.53	0.41	0	
1/20/2022	14.01	14.45	0.44	0	
1/27/2022	14.08	14.82	0.74	1	
2/1/2022	14.25	14.83	0.58	0.63	
2/8/2022	14.31	14.89	0.58	0.63	
2/18/2022	9.93	10.55	0.62	0.63	
2/23/2022	14.09	14.71	0.62	0.75	
3/4/2022	14.08	14.25	0.17	0	
3/10/2022	13.78	14.05	0.27	0	
3/15/2022	13.78	13.93	0.15	0	
3/22/2022	13.63	13.74	0.11	0	
3/29/2022	13.73	13.84	0.11	0	
4/5/2022	13.42	13.88	0.46	0.38	
4/12/2022	12.92	13.22	0.3	0.5	
4/21/2022	12.91	13.06	0.15	0	
4/29/2022	12.75	12.81	0.06	0	
5/8/2022	13.39	13.46	0.07	0	
5/13/2022	13.48	13.53	0.05	0	
5/19/2022	10.08	10.25	0.17	0	
5/23/2022	15.81	15.91	0.1	0	
6/3/2022	13.53	13.59	0.06	0	
6/10/2022	13.58	13.69	0.11	0	
6/16/2022	13.72	13.84	0.12	0	
6/24/2022	13.96	13.99	0.03	0	
6/28/2022	14.16	14.21	0.05	0	
7/8/2022	14.24	14.29	0.05	0	
7/15/2022	14.32	14.39	0.07	0	
7/19/2022	14	14.12	0.12	0	
7/27/2022	14.52	14.9	0.38	0.25	
8/4/2022	14.45	14.95	0.50	0.94	
8/12/2022	14.55	14.73	0.18	0	
8/18/2022	14.75	15.12	0.37	0.5	
8/25/2022	14.75	15.22	0.47	0.63	
9/1/2022	14.82	14.98	0.16	0	
9/9/2022	14.71	14.85	0.14	0	
9/13/2022	14.72	14.89	0.17	0	
9/20/2022	11.05	11.06	0.01	0	
9/26/2022	14.85	15.01	0.16	0	
10/3/2022	14.83	15	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	14.9	15.08	0.18	0	
10/17/2022	14.62	15.77	1.15	1.25	
10/28/2022	15.05	15.21	0.16	0	
11/1/2022	14.84	15	0.16	0	
11/9/2022	15.12	15.3	0.18	0	
11/14/2022	14.85	15.36	0.51	0.5	
11/21/2022	14.74	14.95	0.21	0	
12/9/2022	14.55	14.64	0.09	0	
12/15/2022	14.61	14.75	0.14	0	
12/21/2022	14.44	14.8	0.36	0.5	
12/28/2022	-	14.14	0	0	
1/4/2023	-	13.78	0	0	
1/12/2023	-	13.94	0	0	
1/19/2023	13.85	13.96	0.11	0	
1/24/2023	-	13.49	0	0	
2/1/2023	13.35	13.36	0.01	0	
2/6/2023	13.46	13.47	0.01	0	
2/17/2023	13.41	14.06	0.65	0.88	
2/23/2023	14.20	14.23	0.03	0	
2/27/2023	14.04	14.12	0.08	0	
3/8/2023	13.92	14.25	0.33	0	
3/13/2023	13.92	13.98	0.06	0	
3/21/2023	13.81	13.86	0.05	0	
4/3/2023	14.10	14.13	0.03	0	
4/14/2023	14.31	14.33	0.02	0	
4/20/2023	14.32	14.33	0.01	0	
4/27/2023	14.06	14.12	0.06	0	
5/10/2023	13.67	13.69	0.02	0	
5/19/2023	13.52	13.53	0.01	0	
5/23/2023	14.09	14.11	0.02	0	
5/31/2023	14.24	14.25	0.01	0	
6/6/2023	14.36	14.39	0.03	0	
6/14/2023	14.52	14.56	0.04	0	
6/23/2023	14.64	14.71	0.07	0	
6/29/2023	14.55	14.62	0.07	0	
7/5/2023	14.50	14.65	0.15	0	
7/11/2023	14.05	14.12	0.07	0	
7/19/2023	13.85	13.91	0.06	0	
7/26/2023	13.71	13.85	0.14	0	
8/1/2023	13.81	14.01	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	13.75	13.92	0.17	0	
8/17/2023	13.94	14.01	0.07	0	
8/23/2023	13.91	14.18	0.27	0	
8/29/2023	14.01	14.12	0.11	0	
9/6/2023	14.18	14.34	0.16	0	
9/15/2023	14.30	14.54	0.24	0	
9/19/2023	14.35	14.65	0.30	0	
9/28/2023	13.39	13.65	0.26	0	
10/3/2023	13.42	13.59	0.17	0	
10/11/2023	13.31	13.52	0.21	0	
10/17/2023	13.65	13.85	0.2	0	
10/23/2023	13.39	13.68	0.29	0	
11/7/2023	13.48	13.76	0.28	0	
11/13/2023	12.68	13.05	0.37	0	
11/20/2023	13.88	14.11	0.23	0	
11/28/2023	13.62	13.85	0.23	0	
12/8/2023	13.51	13.74	0.23	0	
12/13/2023	13.28	13.48	0.2	0	
12/20/2023	12.76	12.81	0.05	0	
12/27/2023	12.66	12.72	0.06	0	
1/4/2024	12.71	12.91	0.2	0	
1/12/2024	12.12	12.28	0.16	0	
1/18/2024	12.34	12.52	0.18	0	
1/24/2024	13.01	13.12	0.11	0	
2/2/2024	12.1	12.3	0.2	0	
2/7/2024	12.8	13.01	0.21	0	
2/12/2024	13.08	13.41	0.33	0	
2/23/2024	13	13.31	0.31	0	
3/1/2024	13.25	13.47	0.22	0	
3/7/2024	13.11	13.3	0.19	0	
3/11/2024	11.85	12	0.15	0	
3/21/2024	12.85	13.01	0.16	0	
3/26/2024	12.66	12.8	0.14	0	
4/5/2024	11.54	11.73	0.19	0	
4/10/2024	12.11	12.28	0.17	0	
4/16/2024	12.25	12.44	0.19	0	
4/22/2024	12.8	12.91	0.11	0	
5/3/2024	13.11	13.23	0.12	0	
5/8/2024	13.28	13.34	0.06	0	
5/16/2024	13.17	13.39	0.22	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/23/2024	13.62	13.71	0.09	0	
5/28/2024	13.65	13.78	0.13	0	
6/5/2024	13.75	13.88	0.13	0	
6/11/2024	13.93	13.99	0.06	0	
6/20/2024	14.04	14.15	0.11	0	
6/25/2024	14.08	14.16	0.08	0	
7/1/2024	14.18	14.29	0.11	0	
7/12/2024	14.24	14.34	0.1	0	
7/16/2024	14.3	14.41	0.11	0	
7/24/2024	14.28	14.42	0.14	0	
7/29/2024	14.15	14.31	0.16	0	
8/6/2024	14.28	14.35	0.07	0	
8/13/2024	13.72	13.73	0.01	0	
8/19/2024	13.61	13.64	0.03	0	
8/30/2024	13.81	13.93	0.12	0	
9/5/2024	14.04	14.05	0.01	0	
9/9/2024	14.05	14.12	0.07	0	
9/20/2024	14.25	14.42	0.17	0	
9/25/2024	14.34	14.42	0.08	0	
10/1/2024	14.41	14.45	0.04	0	
10/10/2024	14.61	14.74	0.13	0	
10/14/2024	14.61	14.95	0.34	0	
10/24/2024	14.68	16.08	1.4	0	
10/30/2024	14.71	15.42	0.71	0.88	
11/8/2024	14.75	15.1	0.35	0	
11/14/2024	14.84	15.78	0.94	0	
11/18/2024	14.93	15.75	0.82	0	
11/25/2024	14.82	15.95	1.13	0	
12/6/2024	15.04	15.79	0.75	0	
12/13/2024	14.68	15.51	0.83	0	
12/18/2024	14.57	14.58	0.01	0	
Maximum	15.81	16.08	1.40	1.25	
Minimum	9.93	10.25	0.00	0.00	
Average	13.82	14.03	0.21	0.07	
Total NAPL Removed (gal)				10.85	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Spill Buster™formerly located in well, removed in 2020. No comments during report period between 1/4/2022 and 8/6/2024 re. installation of Spill Buster or drum measurements.					
1/4/2022	10.51	10.95	0.44	0	
1/11/2022	10.69	10.78	0.09	0	
1/20/2022	10.58	10.68	0.1	0	
1/27/2022	10.43	11.29	0.86	1	
2/1/2022	10.64	11.12	0.48	0.75	
2/8/2022	10.45	11.2	0.75	0.88	
2/18/2022	10.55	10.71	0.16	0	
2/23/2022	10.45	10.9	0.45	0.63	
3/4/2022	10.32	10.51	0.19	0	
3/10/2022	10.02	10.64	0.62	0	
3/15/2022	9.88	10.72	0.84	1.25	
3/22/2022	9.88	10.55	0.67	0.5	
3/29/2022	9.88	10.48	0.6	0.75	
4/5/2022	9.62	10.48	0.86	0.63	
4/12/2022	9.14	10.08	0.94	1.13	
4/21/2022	9.09	9.76	0.67	1	
4/29/2022	9	9.03	0.03	0	
5/8/2022	9.76	10.13	0.37	0	
5/13/2022	9.83	10.15	0.32	0	
5/19/2022	13.78	13.81	0.03	0	
5/23/2022	10.14	10.51	0.37	0.75	
6/3/2022	9.79	10.31	0.52	0.88	
6/10/2022	9.91	10.28	0.37	1	
6/16/2022	10.05	10.22	0.17	0	
6/24/2022	10.24	10.29	0.05	0	
6/28/2022	10.32	10.49	0.17	0	
7/8/2022	10.59	10.73	0.14	0	
7/15/2022	10.65	10.66	0.01	0	
7/19/2022	10.55	10.65	0.1	0	
7/27/2022	10.71	10.84	0.13	0	
8/4/2022	10.78	11	0.22	0.5	
8/12/2022	10.88	10.94	0.06	0	
8/18/2022	10.90	11.05	0.15	0	
8/25/2022	11.01	11.29	0.28	0.63	
9/1/2022	11.18	11.21	0.03	0	
9/9/2022	11.12	11.14	0.02	0	
9/13/2022	11.15	11.25	0.1	0	
9/20/2022	14.71	14.82	0.11	0	
9/26/2022	11.08	11.31	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	11.16	11.53	0.37	1.13	
10/10/2022	11.05	11.15	0.1	0	
10/17/2022	11.01	11.37	0.36	0	
10/28/2022	11.18	11.35	0.17	0	
11/1/2022	11.14	11.41	0.27	0.5	
11/9/2022	11.25	11.38	0.13	0	
11/14/2022	13.53	14.16	0.63	1	
11/21/2022	11.11	11.15	0.04	0	
12/9/2022	10.61	10.64	0.03	0	
12/15/2022	10.75	10.76	0.01	0	
12/21/2022	10.61	10.63	0.02	0	
12/28/2022	10.21	10.34	0.13	0	
1/4/2023	9.92	10.21	0.29	0	
1/12/2023	9.96	10.24	0.28	0	
1/19/2023	9.87	10.25	0.38	0	
1/24/2023	9.51	9.81	0.3	0	
2/1/2023	9.52	9.95	0.43	0	
2/6/2023	9.82	10.15	0.33	0	
2/17/2023	9.77	10.05	0.28	0	
2/23/2023	10.29	10.65	0.36	0	
2/27/2023	10.41	10.81	0.4	0	
3/8/2023	10.01	10.31	0.3	0	
3/13/2023	9.90	10.6	0.7	0	
3/21/2023	9.91	10.27	0.36	0	
4/3/2023	10.24	10.84	0.6	1.38	
4/14/2023	10.51	10.92	0.41	0	
4/20/2023	10.55	10.97	0.42	0	
4/27/2023	10.15	10.31	0.16	0	
5/10/2023	9.80	10.09	0.29	0	
5/19/2023	9.72	9.93	0.21	0	
5/23/2023	10.25	10.43	0.18	0	
5/31/2023	10.38	10.91	0.53	0.75	
6/6/2023	11.52	11.64	0.12	0	
6/14/2023	10.64	10.68	0.04	0	
6/23/2023	10.76	11.11	0.35	0	
6/29/2023	10.61	11.25	0.64	0.75	
7/5/2023	10.55	10.6	0.05	0	
7/11/2023	9.85	10.20	0.35	0	
7/19/2023	9.82	10.28	0.46	0	
7/26/2023	9.62	10.04	0.42	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/1/2023	9.84	10.78	0.94	1.25	
8/11/2023	10.12	10.25	0.13	0	
8/17/2023	9.98	10.35	0.37	0	
8/23/2023	9.97	10.55	0.58	1.25	
8/29/2023	10.05	10.40	0.35	0	
9/6/2023	10.27	10.48	0.21	0	
9/15/2023	10.40	11.80	1.40	0.25	
9/19/2023	10.42	10.82	0.40	0	
9/28/2023	9.34	9.45	0.11	0	
10/3/2023	10.46	10.72	0.26	0	
10/11/2023	9.38	9.55	0.17	0	
10/17/2023	9.61	10.05	0.44	0	
10/23/2023	9.33	10.39	1.06	1.25	
11/7/2023	9.61	9.89	0.28	0	
11/13/2023	9.85	10.2	0.35	0	
11/20/2023	10.05	10.5	0.45	0	
11/28/2023	10.01	10.48	0.47	0	
12/8/2023	9.66	10.03	0.37	0	
12/13/2023	9.25	10.21	0.96	0	
12/20/2023	8.69	9.11	0.42	0	
12/27/2023	8.52	8.9	0.38	0	
1/4/2024	8.85	10.05	1.2	0.75	
1/12/2024	8.38	8.61	0.23	0	
1/18/2024	8.63	9.1	0.47	0	
1/24/2024	8.59	9.08	0.49	0	
2/2/2024	8.45	8.91	0.46	0	
2/7/2024	8.96	10.25	1.29	0	
2/12/2024	9.22	10.11	0.89	0.63	
2/23/2024	9.02	9.1	0.08	0	
3/1/2024	9.38	9.72	0.34	0	
3/7/2024	9.15	9.55	0.4	0	
3/11/2024	8.12	8.55	0.43	0	
3/21/2024	8.91	9.31	0.4	0	
3/26/2024	8.8	9.19	0.39	0	
4/5/2024	7.85	8.08	0.23	0	
4/10/2024	8.34	8.98	0.64	1.25	
4/16/2024	8.42	8.45	0.03	0	
4/22/2024	8.91	8.95	0.04	0	
5/3/2024	9.38	9.41	0.03	0	
5/8/2024	9.53	9.56	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-17R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2024	9.56	9.58	0.02	0	
5/23/2024	9.79	10.01	0.22	0	
5/28/2024	9.82	9.92	0.1	0	
6/5/2024	9.91	9.99	0.08	0	
6/11/2024	10.05	10.15	0.1	0	
6/20/2024	10.13	10.14	0.01	0	
6/25/2024	10.27	10.29	0.02	0	
7/1/2024	10.45	10.46	0.01	0.25	
7/12/2024	10.48	10.49	0.01	0.06	
7/16/2024	10.55	10.56	0.01	0.06	
7/24/2024	10.52	10.53	0.01	0	
7/29/2024	10.36	10.37	0.01	0	
Geotech product only bailer installed in July 2024.					
8/6/2024	10.48	10.49	0.01	0.06	
8/13/2024	-	9.89	0	0	drum 2.95
8/19/2024	-	9.78	0	0.06	
8/30/2024	-	10.32	0	0	drum 2.95
9/5/2024	10.18	10.19	0.01	0.03	
9/9/2024	-	10.32	0	0	drum 2.95
9/20/2024	-	10.68	0	0	drum 3.075
9/25/2024	-	10.58	0	0	drum 2.95
10/1/2024	10.55	10.56	0.01	0	drum 2.95
10/10/2024	-	10.85	0	0	drum 2.95
10/14/2024	-	11	0	0	
10/24/2024	10.93	10.96	0.03	0	
10/30/2024	10.91	10.95	0.04	0	
11/8/2024	11	11.15	0.15	0	
11/14/2024	11.18	11.21	0.03	0	
11/18/2024	11.04	11.35	0.31	0	
11/25/2024	11.01	11.54	0.53	0	
12/6/2024	11.16	11.61	0.45	0	
12/13/2024	10.83	11.14	0.31	0	
12/18/2024	10.61	10.62	0.01	0	
Maximum	14.71	14.82	1.40	1.38	
Minimum	7.85	8.08	0.00	0.00	
Average	10.15	10.46	0.30	0.17	
Total NAPL Removed (gal)				24.94	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	13.02	13.21	0.19	0	
1/11/2022	13.12	13.15	0.03	0	
1/20/2022	13.10	13.13	0.03	0	
1/27/2022	12.85	13.18	0.33	0.25	
2/1/2022	13.03	13.04	0.01	0	
2/8/2022	12.85	12.95	0.1	0	
2/18/2022	12.81	12.95	0.14	0	
2/23/2022	12.61	12.66	0.05	0	
3/4/2022	12.52	12.69	0.17	0	
3/10/2022	12.52	12.64	0.12	0	
3/15/2022	12.14	12.55	0.41	0.5	
3/22/2022	12.11	12.35	0.24	0.5	
3/29/2022	12.09	12.18	0.09	0	
4/5/2022	11.86	12.02	0.16	0.63	
4/12/2022	11.36	11.46	0.1	0	
4/21/2022	11.38	11.45	0.07	0	
4/29/2022	11.35	11.45	0.1	0	
5/8/2022	11.82	12.58	0.76	1.25	
5/13/2022	11.98	12.11	0.13	0	
5/19/2022	12.47	12.52	0.05	0	
5/23/2022	12.25	12.81	0.56	0.5	
6/3/2022	11.96	12.09	0.13	0	
6/10/2022	12.01	12.18	0.17	0	
6/16/2022	12.14	12.32	0.18	0	
6/24/2022	16.21	16.23	0.02	0	dRUM-1.41
6/28/2022	12.65	13	0.35	0.38	
7/8/2022	12.66	12.81	0.15	0	
7/15/2022	12.85	13.01	0.16	0	
7/19/2022	12.65	12.78	0.13	0	
7/27/2022	13.05	13.31	0.26	0.13	
8/4/2022	12.94	13.1	0.16	0	
8/12/2022	13.05	13.2	0.15	0	
8/18/2022	13.32	13.49	0.17	0	
8/25/2022	13.15	13.31	0.16	0	
9/1/2022	13.35	13.49	0.14	0	
9/9/2022	13.18	13.36	0.18	0	
9/13/2022	13.32	13.68	0.36	0.5	
9/20/2022	13.15	13.39	0.24	0	
9/26/2022	13.09	13.28	0.19	0	
10/3/2022	13.28	13.84	0.56	0.75	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	13.45	13.55	0.1	0	
10/17/2022	13.1	13.58	0.48	1.25	
10/28/2022	13.55	13.71	0.16	0	
11/1/2022	13.22	13.65	0.43	0.56	
11/9/2022	13.3	13.48	0.18	0	
11/14/2022	12.11	12.92	0.81	0.75	
11/21/2022	13.15	13.35	0.2	0	
12/9/2022	13.01	13.1	0.09	0	
12/15/2022	13.11	13.21	0.1	0	
12/21/2022	13.01	13.42	0.41	0.63	
12/28/2022	12.62	12.81	0.19	0	
1/4/2023	12.42	12.61	0.19	0	
1/12/2023	12.39	12.54	0.15	0	
1/19/2023	12.21	12.55	0.34	0	
1/24/2023	11.85	11.91	0.06	0	
2/1/2023	11.92	12.23	0.31	0	
2/6/2023	12.11	12.65	0.54	0.63	
2/17/2023	12.09	12.33	0.24	0	
2/23/2023	12.68	13	0.32	0	
2/27/2023	12.46	13.21	0.75	1	
3/8/2023	12.41	12.45	0.04	0	
3/13/2023	12.38	12.91	0.53	0.63	
3/21/2023	12.36	12.66	0.3	0	
4/3/2023	12.62	13.15	0.53	0.63	
4/14/2023	12.90	12.91	0.01	0	
4/20/2023	13.12	13.13	0.01	0	
4/27/2023	12.63	12.65	0.02	0	
5/10/2023	12.22	12.32	0.1	0	
5/19/2023	12.2	12.31	0.11	0	
5/23/2023	12.71	12.77	0.06	0	
5/31/2023	12.54	12.78	0.24	0	
6/6/2023	12.92	12.99	0.07	0	
6/14/2023	13.01	13.06	0.05	0	
6/23/2023	13.13	13.38	0.25	0	
6/29/2023	13.00	13.01	0.01	0	
7/5/2023	12.82	12.83	0.01	0	
7/11/2023	12.41	12.55	0.14	0	
7/19/2023	12.28	12.54	0.26	0	
7/26/2023	12.21	12.45	0.24	0	
8/1/2023	12.27	12.45	0.18	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	12.51	12.72	0.21	0	
8/17/2023	12.42	12.56	0.14	0	
8/23/2023	12.41	12.65	0.24	0	
8/29/2023	12.51	12.71	0.2	0	
9/6/2023	12.72	12.91	0.19	0	
9/15/2023	12.8	13.1	0.3	0	
9/19/2023	12.9	13.14	0.24	0	
9/28/2023	11.91	11.92	0.01	0.25	
10/3/2023	11.88	11.89	0.01	0	
10/11/2023	11.93	11.96	0.03	0	
10/17/2023	12.09	12.44	0.35	0	
10/23/2023	11.91	11.96	0.05	0	
11/7/2023	12.01	12.25	0.24	0	
11/13/2023	12.23	12.6	0.37	0	
11/20/2023	12.45	12.85	0.40	0	
11/28/2023	12.50	12.88	0.38	0	
12/8/2023	12.08	12.09	0.01	0	
12/13/2023	11.84	11.85	0.01	0	
12/20/2023	11.41	11.49	0.08	0	
12/27/2023	11.38	11.39	0.01	0	
1/4/2024	11.41	11.75	0.34	0	
1/12/2024	11.01	11.17	0.16	0	
1/18/2024	11.25	11.61	0.36	0	
1/24/2024	11.59	11.98	0.39	0	
2/2/2024	11.01	11.61	0.6	0	
2/7/2024	11.35	12.75	1.4	0	
2/12/2024	11.67	12.74	1.07	0.69	
2/23/2024	11.55	11.6	0.05	0	
3/1/2024	11.85	12.28	0.43	0	
3/7/2024	10.85	11.2	0.35	0	
3/11/2024	10.7	11.11	0.41	0	
3/21/2024	16.41	16.82	0.41	0	
3/26/2024	11.22	11.61	0.39	0	
4/5/2024	10.62	11.05	0.43	0	
4/10/2024	10.88	12.41	1.53	1.75	
4/16/2024	10.95	12.23	1.28	2	
4/22/2024	11.31	12.51	1.2	1.75	
5/3/2024	11.66	12.05	0.39	0	
5/8/2024	11.82	12.09	0.27	0	
5/16/2024	11.77	12.05	0.28	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/23/2024	12.16	12.61	0.45	0	
5/28/2024	12.15	12.5	0.35	0	
6/5/2024	12.21	12.68	0.47	0	
6/11/2024	12.36	12.8	0.44	0	
6/20/2024	12.51	12.83	0.32	0	
6/25/2024	12.65	12.91	0.26	0	
7/1/2024	12.68	13.15	0.47	0	
7/12/2024	12.75	13.04	0.29	0	
7/16/2024	12.7	13.05	0.35	0	
7/24/2024	12.65	13.01	0.36	0	
7/29/2024	12.65	13.1	0.45	0.5	
8/6/2024	12.81	12.82	0.01	0	
8/13/2024	-	12.22	0	0	
8/19/2024	-	12.07	0	0	
8/30/2024	12.31	12.4	0.09	0	
9/5/2024	12.51	12.71	0.2	0	
9/9/2024	12.65	12.8	0.15	0	
9/20/2024	12.79	12.89	0.1	0	
9/25/2024	12.87	12.95	0.08	0	
10/1/2024	12.9	13.06	0.16	0	
10/10/2024	13.08	13.11	0.03	0	
10/14/2024	13.19	13.39	0.2	0	
10/24/2024	13.24	13.46	0.22	0	
10/30/2024	13.26	13.45	0.19	0	
11/8/2024	13.35	13.55	0.2	0	
11/14/2024	13.42	13.43	0.01	0	
11/18/2024	13.52	13.64	0.12	0	
11/25/2024	13.38	13.91	0.53	0	
12/6/2024	13.48	14.03	0.55	0	
12/13/2024	13.26	13.61	0.35	0	
12/18/2024	13.03	13.14	0.11	0	
Maximum	16.41	16.82	1.53	2.00	
Minimum	10.62	11.05	0.00	0.00	
Average	12.49	12.74	0.26	0.12	
Total NAPL Removed (gal)				18.41	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-19 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured 2/9/2022					
Not measured 5/18/22					
Not measured 8/11/22					
Not measured 11/14/22					
Not measured 2/8/2022					
Not measured 5/16/2023					
Not measured 8/14/2023					
Not measured 11/13/2023					
Not measured 2/7/2024					
Not measured 5/8/2024					
Not measured 8/6/2024					
Not measured 11/14/2024					
Maximum	-	-	-	-	
Minimum	-	-	-	-	
Average	-	-	-	-	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.85	0	0	
5/18/2022	-	11.52	0	0	
8/11/2022	-	13.16	0	0	
11/14/2022	-	13.72	0	0	
2/8/2023	12.28	12.29	0.01	0	
5/16/2023	-	12.31	0	0	
8/14/2023	-	12.55	0	0	
11/13/2023	-	12.11	0	0	
2/8/2024	-	11.23	0	0	
5/8/2024	-	11.98	0	0	
8/6/2024	-		0	0	
11/14/2024	-	13.36	0	0	
Maximum	12.28	13.72	0.01	0	
Minimum	12.28	11.23	0.00	0	
Average	12.28	12.37	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	-	13.65	0	0	
2/9/2022	13.51	13.52	0.01	0	
3/10/2022	13.28	13.29	0.01	0	
4/7/2022	-	12.65	0	0	
5/13/2022	-	12.88	0	0	
6/16/2022	-	12.72	0	0	
7/27/2022	13.90	13.91	0.01	0	
8/11/2022	14.08	14.09	0.01	0	
9/13/2022	14.01	14.02	0.01	0	
10/10/2022	14.01	14.02	0.01	0	
11/9/2022	14.22	14.23	0.01	0	
12/9/2022	14.05	14.06	0.01	0	
1/4/2023	13.13	13.14	0.01	0	
2/6/2023	13.05	13.45	0.4	0	
3/8/2023	13.35	13.72	0.37	0	
4/3/2023	13.55	13.7	0.15	0	
5/10/2023	13.08	13.27	0.19	0	
6/16/2023	13.12	13.32	0.20	0	
7/11/2023	13.35	13.36	0.01	0	
8/17/2023	13.19	13.2	0.01	0	
9/6/2023	13.45	13.68	0.23	0	
10/11/2023	12.63	12.89	0.26	0	
11/7/2023	12.78	12.85	0.07	0	
12/13/2023	12.78	12.95	0.17	0	
1/4/2024	12.4	12.6	0.2	0	
2/7/2024	12.45	12.64	0.19	0	
3/11/2024	11.73	11.74	0.01	0	
4/10/2024	11.71	11.82	0.11	0	
5/8/2024	12.68	12.69	0.01	0	
6/11/2024	13.11	13.12	0.01	0	
7/1/2024	13.41	13.42	0.01	0	
8/6/2024	13.33	13.34	0.01	0	
9/5/2024	-	13.05	0	0	
10/1/2024	-	13.51	0	0	
11/8/2024	-	14.25	0	0	
11/14/2024	14.03	14.04	0.01	0	
12/6/2024	-	14.71	0	0	
Maximum	14.22	14.71	0.40	0.0	
Minimum	11.71	11.74	0.00	0.0	
Average	13.22	13.34	0.07	0.0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	13.20	13.21	0.01	0	
2/9/2022	13.04	13.05	0.01	0	
3/10/2022	12.85	12.91	0.06	0	
4/7/2022	12.45	12.53	0.08	0	
5/13/2022	12.49	12.5	0.01	0	
6/16/2022	12.55	12.63	0.08	0	
7/27/2022	13.19	13.2	0.01	0	
8/11/2022	13.39	13.4	0.01	0	
9/13/2022	13.45	13.46	0.01	0	
10/10/2022	13.5	13.52	0.02	0	
11/9/2022	13.66	13.80	0.14	0	
12/9/2022	13.35	13.36	0.01	0	
1/4/2023	-	12.81	0	0	
2/6/2023	12.55	12.75	0.2	0	
3/8/2023	12.85	12.86	0.01	0	
4/3/2023	14.96	14.98	0.02	0	
5/10/2023	12.55	12.74	0.19	0	
6/16/2023	12.40	12.6	0.20	0	
7/11/2023	12.6	12.61	0.01	0	
8/17/2023	12.45	12.52	0.07	0	
9/6/2023	12.79	12.81	0.02	0	
10/11/2023	12.05	12.44	0.39	0	
11/7/2023	12.22	12.54	0.32	0	
12/13/2023	12.18	12.26	0.08	0	
1/4/2024	11.85	12.41	0.56	0	
2/7/2024	11.92	12.3	0.38	0	
3/11/2024	11.6	11.81	0.21	0	
4/10/2024	-	11.58	0	0	
5/8/2024	12.11	12.25	0.14	0	
6/11/2024	12.54	12.59	0.05	0	
7/1/2024	12.91	12.92	0.01	0	
8/6/2024	12.75	12.94	0.19	0	
9/5/2024	12.74	12.76	0.02	0	
10/1/2024	13.05	13.06	0.01	0	
11/8/2024	13.52	13.55	0.03	0	
11/14/2024	13.58	13.75	0.17	0	
12/6/2024	13.95	13.96	0.01	0	
Maximum	14.96	14.98	0.56	0	
Minimum	11.60	11.58	0.00	0	
Average	12.84	12.90	0.10	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	6.28	6.55	0.27	0	
1/11/2022	6.3	6.66	0.36	0	
1/20/2022	6.31	6.68	0.37	0	
1/27/2022	6.05	6.06	0.01	0	
2/1/2022	6.56	6.65	0.09	0	
2/8/2022	6.19	6.35	0.16	0	
2/18/2022	6.11	6.12	0.01	0	
2/23/2022	5.88	5.89	0.01	0	
3/4/2022	5.62	5.64	0.02	0	
3/10/2022	5.23	5.24	0.01	0	
3/15/2022	5.18	5.21	0.03	0	
3/22/2022	5.15	5.18	0.03	0	
3/29/2022	5.11	5.16	0.05	0	
4/5/2022	4.91	5.01	0.1	0	
4/12/2022	4.18	4.55	0.37	0	
4/21/2022	4.15	5.08	0.93	0.25	
4/29/2022	4.12	4.13	0.01	0	
5/8/2022	5.55	5.56	0.01	0	
5/13/2022	5.32	5.33	0.01	0	
5/19/2022	5.88	5.89	0.01	0	
5/23/2022	6.14	6.21	0.07	0	
6/3/2022	4.81	4.96	0.15	0	
6/10/2022	5.38	5.39	0.01	0	
6/16/2022	5.91	5.92	0.01	0	
6/24/2022	6.22	6.59	0.37	0	
6/28/2022	6.7	6.87	0.17	0	
7/8/2022	6.75	6.76	0.01	0	
7/15/2022	6.95	7.11	0.16	0	
7/19/2022	6.52	6.53	0.01	0	
7/27/2022	7.32	7.42	0.1	0	
8/4/2022	7.15	7.31	0.16	0	
8/12/2022	7.36	7.51	0.15	0	
8/18/2022	7.82	8	0.18	0	
8/25/2022	8.10	8.14	0.04	0	
9/1/2022	7.78	7.95	0.17	0	
9/9/2022	7.55	7.71	0.16	0	
9/13/2022	7.15	7.24	0.09	0	
9/20/2022	7.61	7.8	0.19	0	
9/26/2022	7.72	7.95	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/3/2022	7.64	7.81	0.17	0	
10/10/2022	7.45	7.62	0.17	0	
10/17/2022	7.52	7.79	0.27	0	
10/28/2022	7.7	7.87	0.17	0	
11/1/2022	7.35	7.48	0.13	0	
11/9/2022	7.85	7.95	0.1	0	
11/14/2022	7.07	8.25	1.18	1	
11/21/2022	7.21	7.38	0.17	0	
12/9/2022	6	6.15	0.15	0	
12/15/2022	6.3	6.48	0.18	0	
12/21/2022	6.18	6.3	0.12	0	
12/28/2022	5.49	6.01	0.52	0	
1/4/2023	4.78	5.17	0.39	0	
1/12/2023	5.55	5.85	0.3	0	
1/19/2023	5.51	5.81	0.3	0	
1/24/2023	4.55	6.02	1.47	0	
2/1/2023	4.75	5.08	0.33	0	
2/6/2023	4.83	5.24	0.41	0	
2/17/2023	4.96	5.33	0.37	0	
2/23/2023	6.50	7.01	0.51	0	
2/27/2023	4.94	5.33	0.39	0	
3/8/2023	5.30	5.31	0.01	0	
3/13/2023	5.35	5.51	0.16	0	
3/21/2023	5.46	5.55	0.09	0	
4/3/2023	5.89	6.19	0.30	0	
4/14/2023	6.50	6.75	0.25	0	
4/20/2023	6.55	6.85	0.30	0	
4/27/2023	5.46	5.48	0.02	0	
5/10/2023	5.49	5.55	0.06	0	
5/19/2023	5.21	5.29	0.08	0	
5/23/2023	5.15	5.21	0.06	0	
5/31/2023	6.72	7.01	0.29	0	
6/6/2023	6.84	6.98	0.14	0	
6/14/2023	7.12	7.13	0.01	0	
6/23/2023	7.31	7.39	0.08	0	
6/29/2023	7.12	7.21	0.09	0	
7/5/2023	7.08	7.15	0.07	0	
7/11/2023	5.41	5.73	0.32	0	
7/19/2023	5.6	5.88	0.28	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
7/26/2023	5.4	6.01	0.61	0	
8/1/2023	5.35	6	0.65	0	
8/11/2023	5.22	5.88	0.66	0	
8/17/2023	6.18	6.34	0.16	0	
8/23/2023	6.05	6.22	0.17	0	
8/29/2023	6.02	6.21	0.19	0	
9/6/2023	6.95	7.4	0.45	0	
9/15/2023	6.9	7.1	0.2	0	
9/19/2023	8.88	9.14	0.26	0	
9/28/2023	4.61	4.78	0.17	0	
10/3/2023	4.71	5.02	0.31	0	
10/11/2023	5.02	5.15	0.13	0	
10/17/2023	4.72	5.00	0.28	0	
10/23/2023	4.88	5.63	0.75	0	
11/7/2023	5.55	5.81	0.26	0	
11/13/2023	5.84	6.22	0.38	0	
11/20/2023	6.00	6.41	0.41	0	
11/28/2023	5.88	6.5	0.62	0	
12/8/2023	5.08	5.11	0.03	0	
12/13/2023	4.53	4.88	0.35	0	
12/20/2023	4.02	4.19	0.17	0	
12/27/2023	3.89	4.11	0.22	0	
1/4/2024	4.61	5.05	0.44	0	
1/12/2024	3.78	3.95	0.17	0	
1/18/2024	4.3	4.99	0.69	0	
1/24/2024	5.45	5.76	0.31	0	
2/2/2024	5.31	5.69	0.38	0	
2/7/2024	4.89	5.32	0.43	0	
2/12/2024	5.25	5.85	0.6	0	
2/23/2024	5.1	5.72	0.62	0	
3/1/2024	5.06	5.58	0.52	0	
3/7/2024	3.55	4.1	0.55	0	
3/11/2024	3.42	4.02	0.6	0	
3/21/2024	3.57	3.98	0.41	0	
3/26/2024	3.5	3.9	0.4	0	
4/5/2024	3.18	3.48	0.30	0	
4/10/2024	4.13	4.51	0.38	0	
4/16/2024	4.08	4.55	0.47	0	
4/22/2024	4.82	5.15	0.33	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/3/2024	5.14	5.68	0.54	0	
5/8/2024	5.48	5.68	0.20	0	
5/16/2024	5.45	5.64	0.19	0	
5/23/2024	5.95	5.98	0.03	0	
5/28/2024	6.00	6.35	0.35	0	
6/5/2024	6.01	6.60	0.59	0	
6/11/2024	5.88	6.51	0.63	0	
6/20/2024	6.01	6.58	0.57	0	
6/25/2024	6.78	6.88	0.10	0	
7/1/2024	6.85	7.02	0.17	0	
7/12/2024	6.75	6.95	0.2	0	
7/16/2024	6.82	7	0.18	0	
7/24/2024	6.75	6.92	0.17	0	
7/29/2024	6.91	7.02	0.11	0	
8/6/2024	6.9	6.93	0.03	0	
8/13/2024	5.51	5.52	0.01	0	
8/19/2024	5.15	5.31	0.16	0	
8/30/2024	6	6.29	0.29	0	
9/5/2024	6.39	6.71	0.32	0	
9/9/2024	6.6	7	0.4	0	
9/20/2024	-	6.94	0	0	
9/25/2024	-	6.97	0	0	
10/1/2024	6.98	6.99	0.01	0	
10/10/2024	6.95	6.97	0.02	0	
10/14/2024	9.78	9.85	0.07	0	
10/24/2024	9.42	9.5	0.08	0	
10/30/2024	7.48	7.51	0.03	0	
11/8/2024	7.62	8.05	0.43	0	
11/14/2024	7.61	7.99	0.38	0	
11/18/2024	7.54	8.01	0.47	0	
11/25/2024	7.51	8	0.49	0	
12/6/2024	7.61	8.35	0.74	0	
12/13/2024	6.78	7.75	0.97	0	
12/18/2024	6.18	6.72	0.54	0	
Maximum	9.78	9.85	1.47	1.00	
Minimum	3.18	3.48	0.00	0.00	
Average	5.98	6.26	0.27	0.01	
Total NAPL Removed (gal)				1.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
1/4/2022	14.78	14.79	0.01	0	Drum-1.58
1/11/2022	14.95	14.96	0.01	0	drum-1.71
1/20/2022	14.85	14.86	0.01	0	Drum-1.73
1/27/2022	14.75	14.76	0.01	0	Drum- 2.01
2/1/2022	14.85	14.87	0.02	0	Drum-2.21
2/8/2022	15.00	15.01	0.01	0	Drum- 2.3 (swapped to new drum)
2/14/2022	10.71	10.72	0.01	0	
2/18/2022	14.79	14.81	0.02	0	Drum-0.19
2/23/2022	14.75	14.76	0.01	0	Drum-0.32
3/4/2022	14.61	14.62	0.01	0	Drum-0.31
3/10/2022	14.43	14.44	0.01	0	Drum-0.35
3/15/2022	14.28	14.29	0.01	0	Drum-0.37
3/18/2022	16.12	16.13	0.01	0	
3/22/2022	14.33	14.34	0.01	0	Drum-0.35
3/29/2022	14.22	14.23	0.01	0	Drum-0.38
*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 12/23/2021 stated 'drum 0.28 ft'. Total amount of Free Product Recovered between 1/4/2022 and 3/29/2022 = 52 gallons.					
4/5/2022	14.08	14.09	0.01	0	Drum-0.37
4/12/2022	13.68	13.69	0.01	0	Drum-0.32
4/21/2022	13.71	13.72	0.01	0	
4/29/2022	13.65	13.66	0.01	0	Drum-0.38
5/8/2022	14.21	14.22	0.01	0	Drum-0.38
5/13/2022	14.12	14.13	0.01	0	
5/19/2022	14.36	14.39	0.03	0	Drum-0.48
5/23/2022	14.38	14.4	0.02	0	Drum-0.58
5/24/2022	9.93	9.99	0.06	0	
6/3/2022	14.12	14.13	0.01	0	Drum-0.8
6/10/2022	14.17	14.19	0.02	0	Drum-0.82
6/16/2022	14.35	14.36	0.01	0	Drum-0.92
6/24/2022	14.3	14.31	0.01	0	Drum-0.99
6/28/2022	14.42	14.62	0.2	0	Drum-1.22
Total amount of Free Product Recovered between 4/5/2022 and 6/28/2022 = 16.8 gallons.					
7/8/2022	14.71	14.72	0.01	0	Drum-1.67
7/15/2022	14.88	14.89	0.01	0	Drum-2.09
7/19/2022	14.52	14.53	0.01	0	Drum-2.20
7/27/2022	14.71	14.72	0.01	0	Drum-2.25
8/4/2022	15.5	16.01	0.51	0	Drum- New*
8/12/2022	15.11	15.12	0.01	0	Drum-0.84
8/18/2022	15.15	15.16	0.01	0	Drum-1.42
8/25/2022	15.27	15.28	0.01	0	Drum-1.99
9/1/2022	15.24	15.27	0.03	0	Drum-2.26
9/9/2022	15.45	15.46	0.01	0	Drum-2.26
9/13/2022	15.18	15.19	0.01	0	Drum-0.51
9/20/2022	15.28	15.29	0.01	0	Drum-0.92

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
9/26/2022	15.27	15.28	0.01	0	Drum-1.26
Total amount of Free Product Recovered between 7/8/2022 and 9/26/2022 = 50.8 gallons.					
10/3/2022	15.36	15.37	0.01	0	Drum-1.64
10/10/2022	15.3	15.31	0.01	0	Drum-2.02
10/17/2022	15.16	15.42	0.26	0	Drum- 2.31
10/28/2022	15.28	15.3	0.02	0	Drum-2.29
11/1/2022	15.87	15.88	0.01	0	
11/9/2022	15.52	15.53	0.01	0	Drum- 0.46
11/14/2022	15.41	15.42	0.01	0	Drum-0.72
11/21/2022	15.27	15.28	0.01	0	Drum-1.0
12/9/2022	14.89	14.9	0.01	0	Drum-1.55
12/15/2022	15	15.01	0.01	0	Drum-1.56
12/21/2022	14.85	14.86	0.01	0	Drum-2.60
12/28/2022	14.55	14.56	0.01	0	Drum-1.60
Total amount of Free Product Recovered between 10/3/2022 and 12/28/2022 = 56.8 gallons.					
1/4/2023	14.27	14.28	0.01	0	Drum-0.52
1/12/2023	14.31	14.32	0.01	0	Drum-0.55
1/19/2023	14.27	14.28	0.01	0	Drum-0.54
1/24/2023	14.03	14.04	0.01	0	Drum-0.52
2/1/2023	13.93	13.94	0.01	0	Drum-0.51
2/6/2023	14.18	14.19	0.01	0	Drum-0.52
2/13/2023	14.61	14.62	0.01	0	Drum-0.51
2/17/2023	14.05	14.06	0.01	0	Drum-0.51
2/23/2023	14.6	14.61	0.01	0	Drum-0.55
2/27/2023	14.71	14.72	0.01	0	Drum-0.53
3/8/2023	10.48	10.49	0.01	0	Drum-0.52
3/28/2023	14.31	14.32	0.01	0	Drum-0.54
Free product not removed from well RW-1 during period between 1/4/2023 and 3/28/2023.					
4/3/2023	14.45	14.47	0.02	0	Drum-1.91
4/14/2023	14.71	14.72	0.01	0	Drum-2.30
4/20/2023	14.75	14.76	0.01	0	Drum-2.31
4/27/2023	14.38	15.01	0.63	0	Drum-2.28
5/10/2023	14.28	14.29	0.01	0	Drum-0.17
5/19/2023	14.2	14.29	0.09	0	Drum-0.18
5/23/2023	14.62	14.63	0.01	0	Drum-0.18 Replaced oil line
5/31/2023	14.65	14.66	0.01	0	Drum-0.70
6/6/2023	15.36	15.37	0.01	0	Drum-0.55
6/14/2023	14.88	14.89	0.01	0	Drum-1.22
6/23/2023	15.02	15.03	0.01	0	Drum-1.82
6/29/2023	14.95	14.96	0.01	0	
Approximately 54.4 gallons of free product removed from well RW-1 in period between 4/3/2023 and 6/29/2023.					
7/5/2023	14.9	14.91	0.01	0	Drum-1.87

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
7/11/2023	14.19	14.22	0.03	0	Drum-2.30
7/19/2023	14.24	14.25	0.01	0	Drum-0.32
7/26/2023	14.11	14.12	0.01	0	Drum-0.42
8/1/2023	14.17	14.18	0.01	0	Drum-0.42
8/11/2023	14.45	14.46	0.01	0	Drum-0.49
8/17/2023	14.35	14.36	0.01	0	Drum-0.43
8/22/2023	8.91	8.92	0.01	0	
8/23/2023	14.34	14.35	0.01	0	Drum-0.43
8/29/2023	14.31	14.32	0.01	0	
9/6/2023	14.65	14.66	0.01	0	Drum-0.59
9/15/2023	14.72	14.8	0.08	0	Drum-0.89
9/19/2023	14.85	14.86	0.01	0	
9/28/2023	13.78	13.79	0.01	0	Drum-1.20
Approximately 37.6 gallons of Free product removed from well RW-1 in period between 7/5/2023 and 9/28/2023.					
10/3/2023	13.83	13.84	0.01	0	Drum-1.19
10/11/2023	13.77	13.78	0.01	0	Drum-1.19
10/17/2023	14.01	14.02	0.01	0	Drum-1.20
10/23/2023	13.85	13.86	0.01	0	Drum-1.20
10/27/2023	15.28	15.29	0.01	0	
11/7/2023	13.98	13.99	0.01	0	drum 1.19
11/13/2023	14.15	14.16	0.01	0	drum 1.19
11/20/2023	14.48	14.49	0.01	0	drum 1.28
11/28/2023	15	15.01	0.01	0	top of oil (drum) 1.90
12/8/2023	13.95	13.96	0.01	0	drum 1.32
12/13/2023	13.71	13.72	0.01	0	drum 1.32
12/20/2023	13.46	13.47	0.01	0	drum 1.32
12/27/2023	13.4	13.41	0.01	0	drum 1.32
Approximately 2.5 gallons of free product removed from well RW-1 in period between 10/3/2023 and 12/27/2023.					
1/4/2024	13.49	13.5	0.01	0	drum 1.35
1/12/2024	13.11	13.12	0.01	0	drum 1.33
1/18/2024	13.41	13.42	0.01	0	drum 1.33
1/24/2024	13.61	13.62	0.01	0	drum 1.32
2/2/2024	13.15	13.19	0.04	0	drum 1.35
2/7/2024	13.49	13.89	0.4	0	drum 1.28
2/12/2024	13.73	13.83	0.1	0	
2/23/2024	13.68	13.7	0.02	0	drum 1.34
3/1/2024	13.56	13.57	0.01	0	drum 1.52
3/7/2024	13.05	13.1	0.05	0	drum 1.57
3/11/2024	12.85	12.86	0.01	0	drum 1.57
3/21/2024	13.55	13.57	0.02	0	drum 1.56
3/26/2024	13.45	13.46	0.01	0	drum 1.57
Approximately 5.2 gallons of free product removed from well RW-1 in period.between 1/4/2024 and 3/26/2024.					
4/5/2024	12.75	12.76	0.01	0	drum 1.58 screen clogged and cleaned

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: RW-1 Diameter: 6 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/10/2024	13.12	13.13	0.01	0	drum 1.72
4/16/2024	13.14	13.15	0.01	0	drum 2.08
4/22/2024	13.51	13.52	0.01	0	
5/3/2024	13.62	13.65	0.03	0	drum 1.92
5/8/2024	13.61	13.65	0.04	0	drum 2.02
5/16/2024	13.55	13.57	0.02	0	drum 2.21
5/23/2024	14.00	14.15	0.15	0	drum 2.31
5/28/2024	14.09	14.10	0.01	0	drum 0.14
6/5/2024	14.11	14.22	0.11	0	drum 0.28
6/11/2024	14.27	14.28	0.01	0	drum 0.42
6/20/2024	14.37	14.38	0.01	0	drum 0.68
6/25/2024	14.45	14.46	0.01	0	drum 0.75
Approximately 38.0 gallons of free product removed from well RW-1 in period between 4/5/2024 and 6/25/2024.					
7/1/2024	14.32	15.71	1.39	0.63	drum 0.72 Autoseeker computer not working
7/12/2024	14.41	15.89	1.48	1	
7/16/2024	14.55	14.65	0.1	0	
7/24/2024	14.49	14.57	0.08	0	
7/29/2024	14.3	15.79	1.49	3.25	
8/6/2024	14.55	15.75	1.2	3	
8/13/2024	14	14.65	0.65	1.25	
8/19/2024	13.81	13.85	0.04	0	
8/30/2024	14.15	14.45	0.3	0	
9/5/2024	14.35	14.71	0.36	0	
9/9/2024	14.35	15.01	0.66	1.63	
9/20/2024	14.45	14.89	0.44	0	
9/25/2024	14.43	15.11	0.68	4.25	
10/1/2024	14.5	16.45	1.95	4	
10/10/2024	14.82	15.81	0.99	4.5	
10/14/2024	14.63	16.6	1.97	4.25	
10/24/2024	14.75	17.01	2.26	4.5	
10/30/2024	14.76	17.33	2.57	5.25	
11/8/2024	14.85	17.44	2.59	5.25	
11/14/2024	14.94	16.52	1.58	0	
11/18/2024	14.99	17.14	2.15	0	
11/25/2024	14.99	17.5	2.51	0	
12/6/2024	15.18	17.31	2.13	0	
12/13/2024	14.88	16.51	1.63	0	
12/18/2024	14.74	15.26	0.52	0	
Maximum	16.12	17.50	2.59	NA	
Minimum	8.91	8.92	0.01	NA	
Average	14.29	14.52	0.23	NA	
Total NAPL Removed (gal)				356.86	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	6.19	6.2	0.01	0	
5/26/2022	6.22	6.23	0.01	0	
8/11/2022	-	9.45	0	0	
11/14/2022	-	9.88	0	0	
2/8/2023	-	6.89	0	0	
5/16/2023	-	7.29	0	0	
8/14/2023	-	8.35	0	0	
11/13/2023	-	7.28	0	0	
2/8/2024	-	6.55	0	0	
5/8/2024	-	6.96	0	0	
8/6/2024	-	8.99	0	0	
11/14/2024	-	9.76	0	0	
11/18/2024	-	9.96	0	0	
11/25/2024	-	9.86	0	0	
12/6/2024	-	9.78	0	0	
12/13/2024	-	9.51	0	0	
12/18/2024	-	8.84	0	0	
Maximum	6.2	10.0	0.0	0	
Minimum	6.2	6.2	0.0	0	
Average	6.2	8.3	0.0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	9.1	9.58	0.48	0	
1/11/2022	9.15	9.57	0.42	0	
1/20/2022	9.12	9.55	0.43	0	
1/27/2022	9.05	10.16	1.11	1	
2/1/2022	9.25	9.72	0.47	0.63	
2/8/2022	9.71	9.85	0.14	0	
2/18/2022	9.21	9.8	0.59	0.75	
2/23/2022	9.12	9.3	0.18	0	
3/4/2022	8.96	9.75	0.79	1	
3/10/2022	8.83	8.99	0.16	0	
3/15/2022	8.65	9.05	0.4	1	
3/22/2022	8.78	8.79	0.01	0	
3/29/2022	8.65	8.74	0.09	0	
4/5/2022	8.55	8.73	0.18	0	
4/12/2022	8.13	8.24	0.11	0	
4/21/2022	8.11	8.47	0.36	0.81	
4/29/2022	8	8.12	0.12	0	
5/8/2022	8.64	8.69	0.05	0	
5/13/2022	8.64	8.69	0.05	0	
5/19/2022	8.92	8.96	0.04	0	
5/23/2022	8.88	8.93	0.05	0	
6/3/2022	8.55	8.92	0.37	0.5	
6/10/2022	8.63	8.64	0.01	0	
6/16/2022	8.77	8.82	0.05	0	
6/24/2022	8.91	8.92	0.01	0	
6/28/2022	8.99	9.15	0.16	0	
7/8/2022	9.21	9.44	0.23	0	
7/15/2022	9.33	9.51	0.18	0	
7/19/2022	9.1	9.32	0.22	0.25	
7/27/2022	9.72	9.91	0.19	0	
8/4/2022	9.55	10.15	0.6	1	
8/12/2022	9.59	10.15	0.56	0.88	
8/18/2022	10.11	10.15	0.04	0	
8/25/2022	9.63	10.39	0.76	0.75	
9/1/2022	10.21	10.39	0.18	0	
9/9/2022	9.61	10.05	0.44	1.25	
9/13/2022	9.64	9.79	0.15	0	
9/20/2022	9.62	10.42	0.8	1.25	
9/26/2022	9.72	9.89	0.17	0	
10/3/2022	9.75	10.95	1.2	1.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	10.05	10.22	0.17	0	
10/17/2022	9.57	10.89	1.32	1.5	
10/28/2022	10.21	11.2	0.99	4	
11/1/2022	9.75	9.91	0.16	0	
11/9/2022	9.81	10.38	0.57	1	
11/14/2022	10.15	11.05	0.9	1.5	
11/21/2022	10.14	10.78	0.64	1	
12/9/2022	9.7	10.55	0.85	1	
12/15/2022	9.85	10.1	0.25	0.5	
12/21/2022	9.45	9.85	0.4	0.63	
12/28/2022	9.35	9.75	0.4	0	
1/4/2023	9.11	9.75	0.64	0.75	
1/12/2023	9.14	9.30	0.16	0	
1/19/2023	9.05	9.41	0.36	0	
1/24/2023	8.41	8.85	0.44	0	
2/1/2023	8.31	8.58	0.27	0	
2/6/2023	8.52	8.88	0.36	0	
2/17/2023	8.55	8.99	0.44	0	
2/23/2023	9.45	9.88	0.43	0	
2/27/2023	9.16	9.78	0.62	1	
3/8/2023	9.13	9.83	0.7	1.13	
3/13/2023	-	15.68	0	0	
3/21/2023	9.14	9.39	0.25	0	
4/3/2023	9.35	9.74	0.39	0	
4/14/2023	9.59	9.97	0.38	0	
4/20/2023	9.70	10.99	1.29	0	
4/27/2023	9.40	9.88	0.48	0	
5/10/2023	8.65	9.01	0.36	0	
5/19/2023	8.72	9.20	0.48	0	
5/23/2023	9.49	9.74	0.25	0	
5/31/2023	9.05	9.47	0.42	0	
6/6/2023	9.65	9.89	0.24	0	
6/14/2023	9.76	9.99	0.23	0	
6/23/2023	9.85	10.61	0.76	1.38	
6/29/2023	9.65	9.74	0.09	0	
7/5/2023	9.52	9.64	0.12	0	
7/11/2023	9.11	9.45	0.34	0	
7/19/2023	9.11	9.45	0.34	0	
7/26/2023	8.91	9.38	0.47	0	
8/1/2023	9.01	9.98	0.97	1	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	9.32	9.69	0.37	0	
8/17/2023	9.18	9.35	0.17	0	
8/23/2023	8.81	9.24	0.43	0.75	
8/29/2023	9.25	9.4	0.15	0	
9/6/2023	9.52	9.65	0.13	0	
9/15/2023	9.60	9.95	0.35	0	
9/19/2023	9.65	10.00	0.35	0	
9/28/2023	8.75	9.01	0.26	0	
10/11/2023	8.6	8.98	0.38	0	
10/17/2023	8.8	9.25	0.45	0	
10/23/2023	8.65	9.54	0.89	1.25	
11/7/2023	8.86	8.89	0.03	0	
11/13/2023	9.01	9.18	0.17	0	
11/20/2023	9.35	9.67	0.32	0	
11/28/2023	9.22	9.51	0.29	0	
12/8/2023	8.77	8.89	0.12	0	
12/13/2023	8.61	8.62	0.01	0	
12/20/2023	8.35	8.58	0.23	0	
12/27/2023	8.28	8.50	0.22	0	
1/4/2024	8.35	9.15	0.8	0.5	
1/12/2024	8.02	8.41	0.39	0	
1/18/2024	8.25	8.59	0.34	0	
1/24/2024	8.48	8.86	0.38	0	
2/2/2024	8.01	8.45	0.44	0	
2/7/2024	8.3	9.3	1	0	
2/12/2024	8.51	9.32	0.81	0.5	
2/23/2024	8.2	8.3	0.1	0	
3/1/2024	8.16	8.27	0.11	0	
3/7/2024	7.95	8.25	0.3	0	
3/11/2024	7.75	8.21	0.46	0	
3/21/2024	8.35	8.66	0.31	0	
3/26/2024	8	8.32	0.32	0	
4/5/2024	7.46	9.42	1.96	1	
4/10/2024	7.63	7.64	0.01	0	
4/16/2024	8.11	8.16	0.05	0	
4/22/2024	8.38	8.42	0.04	0	
5/3/2024	8.61	8.65	0.04	0	
5/8/2024	8.66	8.89	0.23	0	
5/16/2024	8.64	8.98	0.34	0	
5/23/2024	8.98	9.12	0.14	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/28/2024	9.00	9.42	0.42	0	
6/5/2024	8.94	9.25	0.31	0	
6/11/2024	9.15	9.49	0.34	0	
6/20/2024	9.08	9.5	0.42	0	
7/1/2024	9.33	10.05	0.72	0.5	
7/12/2024	9.46	9.82	0.36	0	
7/16/2024	9.62	10	0.38	0	
7/24/2024	9.55	9.92	0.37	0	
7/29/2024	9.27	10.56	1.29	1.25	
8/6/2024	9.55	9.89	0.34	0	
8/13/2024	8.9	9.55	0.65	0.63	
8/19/2024	8.65	8.78	0.13	0	
8/30/2024	9.01	9.34	0.33	0	
9/5/2024	9.29	9.55	0.26	0	
9/9/2024	9.35	9.61	0.26	0	
9/20/2024	9.51	9.86	0.35	0	
9/25/2024	9.56	9.85	0.29	0.88	
10/1/2024	9.55	9.75	0.2	0	
10/10/2024	9.81	9.99	0.18	0	
10/14/2024	9.85	10.11	0.26	0	
10/24/2024	9.89	10.29	0.4	0	
10/30/2024	9.82	10.51	0.69	1	
11/8/2024	10.05	10.91	0.86	1	
11/14/2024	10.02	10.03	0.01	0	
11/18/2024	10.05	10.66	0.61	0	
11/25/2024	10.05	11.26	1.21	0	
12/6/2024	10.15	11.65	1.5	0	
12/13/2024	9.76	10.96	1.2	0	
12/18/2024	9.66	10.54	0.88	0	
Maximum	10.21	15.68	1.96	4.00	
Minimum	7.46	7.64	0.00	0.00	
Average	9.11	9.56	0.41	0.26	
Total NAPL Removed (gal)				38.10	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	6.29	6.3	0.01	0	
5/26/2022	6.01	6.02	0.01	0	
8/11/2022	8.65	8.66	0.01	0	
11/14/2022	7.49	7.50	0.01	0	
2/8/2023	6.32	6.45	0.13	0	
5/16/2023	6.65	6.75	0.1	0	
8/14/2023	6.65	6.75	0.1	0	
11/13/2023	6.90	6.91	0.01	0	
2/8/2024	5.55	5.56	0.01	0	
5/8/2024	6.53	6.54	0.01	0	
8/6/2024	-	8.1	0	0	
11/14/2024	8.81	8.82	0.01	0	
Maximum	8.81	8.82	0.13	0	
Minimum	5.55	5.56	0.00	0	
Average	6.90	7.03	0.03	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.11	6.12	0.01	0	
2/9/2022	5.80	5.81	0.01	0	
3/10/2022	6.92	6.93	0.01	0	
4/7/2022	4.6	4.61	0.01	0	
5/13/2022	5.21	5.23	0.02	0	
6/16/2022	-	5.49	0	0	
7/27/2022	7.95	7.96	0.01	0	
8/11/2022	-	8.19	0	0	
9/13/2022	-	8.35	0	0	
10/10/2022	8.35	8.36	0.01	0	
11/9/2022	8.55	8.56	0.01	0	
12/9/2022	7.61	7.62	0.01	0	
1/4/2023	6.90	6.91	0.01	0	
2/6/2023	6.53	6.54	0.01	0	
3/8/2023	7.01	7.02	0.01	0	
4/3/2023	7.53	7.54	0.01	0	
5/10/2023	6.72	6.73	0.01	0	
6/16/2023	6.81	6.82	0.01	0	
7/11/2023	6.66	6.67	0.01	0	
8/17/2023	7.35	7.36	0.01	0	
9/6/2023	-	7.55	0	0	
10/11/2023	6.58	6.59	0.01	0	
11/7/2023	6.87	6.88	0.01	0	
12/13/2023	6.55	6.56	0.01	0	
1/4/2024	6.12	6.13	0.01	0	
2/7/2024	6.45	6.46	0.01	0	
3/11/2024	5.15	5.16	0.01	0	
4/10/2024	5.75	5.76	0.01	0	
5/8/2024	6.72	6.73	0.01	0	
6/11/2024	7.25	7.26	0.01	0	
7/1/2024	7.54	7.56	0.02	0	
8/6/2024	-	7.65	0	0	
9/5/2024	7.31	7.32	0.01	0	
10/1/2024	7.78	7.79	0.01	0	
11/8/2024	8.23	8.24	0.01	0	
11/14/2024	8.35	8.36	0.01	0	
12/6/2024	8.38	8.39	0.01	0	
Maximum	8.55	8.56	0.02	0	
Minimum	4.60	4.61	0.00	0	
Average	6.93	7.01	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	6.22	6.23	0.01	0	
2/9/2022	5.80	5.81	0.01	0	
3/10/2022	7.70	7.71	0.01	0	
4/7/2022	4.85	4.86	0.01	0	
5/13/2022	5.45	5.46	0.01	0	
6/16/2022	-	5.41	0	0	
7/27/2022	-	8.3	0	0	
8/11/2022	8.49	8.5	0.01	0	
9/13/2022	-	8.69	0	0	
10/10/2022	-	8.7	0	0	
11/9/2022	8.88	8.89	0.01	0	
12/9/2022	8.25	8.26	0.01	0	
1/4/2023	7.21	7.22	0.01	0	
2/6/2023	-	6.98	0	0	
3/8/2023	7.61	7.62	0.01	0	
4/3/2023	7.71	7.72	0.01	0	
5/10/2023	6.98	6.99	0.01	0	
6/16/2023	7.00	7.01	0.01	0	
7/11/2023	6.75	6.76	0.01	0	
8/17/2023	7.65	7.66	0.01	0	
9/6/2023	-	7.84	0	0	
10/11/2023	-	6.75	0	0	
11/7/2023	7.02	7.03	0.01	0	
12/13/2023	-	6.38	0	0	
1/4/2024	6.24	6.25	0.01	0	
2/7/2024	6.51	6.52	0.01	0	
3/11/2024	-	5.15	0	0	
4/10/2024	-	5.87	0	0	
5/8/2024	-	6.91	0	0	
6/11/2024	-	7.55	0	0	
7/1/2024	7.88	7.89	0.01	0	
8/6/2024	-	8	0	0	
9/5/2024	-	7.65	0	0	
10/1/2024	-	8.99	0	0	
11/8/2024	-	8.6	0	0	
11/14/2024	-	8.68	0	0	
12/6/2024	-	8.68	0	0	
Maximum	8.88	8.99	0.01	0	
Minimum	4.85	4.86	0.00	0	
Average	7.06	7.28	0.01	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/12/2022	7.55	7.71	0.16	0	
2/9/2022	6.05	6.06	0.01	0	
3/10/2022	7.98	7.99	0.01	0	
4/7/2022	7.65	7.66	0.01	0	
5/13/2022	5.81	5.82	0.01	0	
6/16/2022	5.98	5.99	0.01	0	
7/27/2022	-	9.7	0	0	
8/11/2022	8.75	8.76	0.01	0	
9/13/2022	9.08	9.09	0.01	0	
10/10/2022	9.05	9.2	0.15	0	
11/9/2022	9.04	9.14	0.1	0	
12/9/2022	8.45	8.61	0.16	0	
1/4/2023	7.42	7.43	0.01	0	
2/6/2023	7.53	7.54	0.01	0	
3/8/2023	7.88	7.96	0.08	0	
4/3/2023	8.13	8.14	0.01	0	
5/10/2023	7.67	7.69	0.02	0	
6/16/2023	7.70	7.71	0.01	0	
7/11/2023	7.33	7.34	0.01	0	
8/17/2023	7.93	7.94	0.01	0	
9/6/2023	8.16	8.18	0.02	0	
10/11/2023	7.36	7.37	0.01	0	
11/7/2023	7.51	7.52	0.01	0	
12/13/2023	6.91	6.92	0.01	0	
1/4/2024	6.45	6.46	0.01	0	
2/7/2024	7.02	7.03	0.01	0	
3/11/2024	5.15	5.16	0.01	0	
4/10/2024	5.84	5.85	0.01	0	
5/8/2024	7.41	7.42	0.01	0	
6/11/2024	7.85	7.86	0.01	0	
7/1/2024	8.17	8.25	0.08	0	
8/6/2024	-	8.26	0	0	
9/5/2024	8.8	8.81	0.01	0	
10/1/2024	8.4	8.41	0.01	0	
11/8/2024	8.85	8.96	0.11	0	
11/14/2024	8.91	9.05	0.14	0	
12/6/2024	8.94	9.18	0.24	0	
Maximum	9.08	9.70	0.24	0	
Minimum	5.15	5.16	0.00	0	
Average	7.68	7.79	0.04	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	10.65	10.71	0.06	0	
5/26/2022	10.35	10.41	0.06	0	
8/11/2022	12.8	12.81	0.01	0	
11/14/2022	12.99	13.62	0.63	0.63	
2/8/2023	11.61	11.79	0.18	0	
5/16/2023	11.85	12.05	0.2	0	
8/14/2023	12.10	12.11	0.01	0	
11/13/2023	11.6	11.78	0.18	0	
2/8/2024	9.8	9.85	0.05	0	
5/8/2024	11.25	11.26	0.01	0	
8/6/2024	12.48	12.49	0.01	0	
11/14/2024	13.02	13.11	0.09	0	
Maximum	13.02	13.62	0.63	0.63	
Minimum	9.80	9.85	0.01	0.00	
Average	11.71	11.83	0.12	0.05	
Total NAPL Removed (gal)				0.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	11.12	11.21	0.09	0	
2/9/2022	-	11.05	0	0	
5/26/2022	-	11.24	0	0	
8/11/2022	-	13.95	0	0	
11/14/2022	-	15.68	0	0	
2/8/2023	-	12.76	0	0	
2/27/2023	11.18	11.19	0.01	0	
5/16/2023	-	13.01	0	0	
Not measured 8/14/2023					
11/13/2023	-	12.72	0	0	
2/8/2024	-	10.99	0	0	
5/8/2024	-	12.92	0	0	
8/6/2024	-	14.05	0	0	
11/14/2024	-	14.59	0	0	
Maximum	11.18	15.68	0.09	0.0	
Minimum	11.12	10.99	0.00	0.0	
Average	11.15	12.72	0.01	0.0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
2/9/2022	-	11.81	0	0	
5/26/2022	-	11.55	0	0	
8/11/2022	-	14.08	0	0	
11/14/2022	-	14.45	0	0	
2/8/2023	-	13.46	0	0	
5/16/2023	-	13.41	0	0	
8/14/2023	-	13.10	0	0	
11/13/2023	-	13.15	0	0	
2/8/2024	-	10.92	0	0	
5/8/2024	-	12.9	0	0	
8/6/2024	-	13.59	0	0	
11/14/2024	-	14.32	0	0	
11/18/2024	-	14.35	0	0	
11/25/2024	-	14.26	0	0	
12/6/2024	-	14.34	0	0	
12/13/2024	-	14.18	0	0	
12/18/2024	-	14.02	0	0	
Maximum	-	14.45	0	0	
Minimum	-	10.92	0	0	
Average	-	13.41	0	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured 2/9/2022					
Not measured 5/18/22					
Not measured 8/11/22					
Not measured 11/14/22					
Not measured 2/8/2022					
Not measured 5/16/2023					
Not measured 8/14/2023					
Not measured 11/13/2023					
Not measured 2/7/2024					
Not measured 5/8/2024					
Not measured 8/6/2024					
Not measured 11/14/2024					
Maximum	-	-	-	-	
Minimum	-	-	-	-	
Average	-	-	-	-	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	8.33	0	0	
1/11/2022	8.31	8.32	0.01	0	
1/20/2022	8.34	8.35	0.01	0	
1/27/2022	8.6	8.61	0.01	0	
2/1/2022	-	8.34	0	0	
2/8/2022	8.12	8.13	0.01	0	
2/18/2022	8.24	8.25	0.01	0	
2/23/2022	8.16	8.17	0.01	0	
3/4/2022	7.94	7.95	0.01	0	
3/10/2022	7.91	7.92	0.01	0	
3/15/2022	7.65	7.66	0.01	0	
3/22/2022	-	7.64	0	0	
3/29/2022	7.58	7.59	0.01	0	
4/5/2022	7.23	7.24	0.01	0	
4/12/2022	6.89	6.92	0.03	0	
4/21/2022	-	6.78	0	0	
4/29/2022	-	7.09	0	0	
5/8/2022	7.5	7.51	0.01	0	
5/13/2022	-	7.79	0	0	
5/19/2022	-	7.8	0	0	
5/23/2022	-	7.94	0	0	
6/3/2022	7.44	7.45	0.01	0	
6/10/2022	-	7.61	0	0	
6/16/2022	-	7.64	0	0	
6/24/2022	-	7.94	0	0	
6/28/2022	-	8.45	0	0	
7/8/2022	-	8.21	0	0	
7/15/2022	-	8.29	0	0	
7/19/2022	-	8.19	0	0	
7/27/2022	8.85	8.86	0.01	0	
8/4/2022	9.10	9.15	0.05	0	
8/12/2022	8.58	8.76	0.18	0	
8/18/2022	9.12	9.25	0.13	0	
8/25/2022	9.01	9.02	0.01	0	
9/1/2022	8.82	9.11	0.29	0	
9/9/2022	8.75	8.83	0.08	0	
9/13/2022	8.75	8.81	0.06	0	
9/20/2022	8.85	8.93	0.08	0	
9/26/2022	9.10	9.28	0.18	0	
10/3/2022	9.35	9.80	0.45	0.06	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	9.41	9.51	0.10	0	
10/17/2022	9.13	9.38	0.25	0	
10/28/2022	9.28	10.55	1.27	0	
11/1/2022	9.25	10.20	0.95	0	
11/9/2022	8.81	10.15	1.34	0	
11/14/2022	8.78	9.42	0.64	0	
11/21/2022	8.78	8.91	0.13	0	
12/9/2022	-	8.67	0	0	
12/15/2022	-	8.86	0	0	
12/21/2022	-	8.55	0	0	
12/28/2022	-	8.38	0	0	
1/4/2023	-	7.56	0	0	
1/12/2023	-	8.18	0	0	
1/19/2023	-	8.05	0	0	
1/24/2023	-	7.58	0	0	
2/1/2023	7.65	7.71	0.06	0	
2/6/2023	7.98	7.99	0.01	0	
2/17/2023	8.02	8.05	0.03	0	
2/23/2023	8.05	8.32	0.27	0	
2/27/2023	8.68	8.69	0.01	0	
3/8/2023	7.66	7.67	0.01	0	
3/13/2023	-	7.63	0	0	
3/21/2023	-	8.15	0	0	
4/3/2023	-	7.95	0	0	
4/14/2023	-	8.65	0	0	
4/20/2023	-	8.85	0	0	
4/27/2023	-	8.31	0	0	
5/10/2023	-	7.96	0	0	
5/19/2023	-	7.86	0	0	
5/23/2023	-	7.81	0	0	
5/31/2023	-	8.62	0	0	
6/6/2023	-	8.84	0	0	
6/14/2023	-	8.88	0	0	
6/23/2023	9.02	9.13	0.11	0	
6/29/2023	9.00	9.13	0.13	0	
7/5/2023	8.99	9.2	0.21	0	
7/11/2023	-	8.01	0	0	
7/19/2023	8.03	8.04	0.01	0	
7/26/2023	8.03	8.05	0.02	0	
8/1/2023	8.09	8.12	0.03	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	8.05	8.06	0.01	0	
8/17/2023	8.01	8.06	0.05	0	
8/23/2023	8.15	8.16	0.01	0	
8/29/2023	8.22	8.23	0.01	0	
9/6/2023	8.45	8.46	0.01	0	
9/15/2023	8.6	8.61	0.01	0	
9/19/2023	8.39	8.4	0.01	0	
9/28/2023	8.01	8.02	0.01	0	
10/3/2023	7.56	7.57	0.01	0	
10/11/2023	-	7.55	0	0	
10/17/2023	7.50	7.62	0.12	0	
10/23/2023	-	7.49	0	0	
11/7/2023	-	7.25	0	0	
11/13/2023	8.10	8.11	0.01	0	
11/20/2023	8.15	8.16	0.01	0	
11/28/2023	8.00	8.01	0.01	0	
12/8/2023	7.80	7.85	0.05	0	
12/13/2023	-	7.91	0	0	
12/20/2023	6.81	6.82	0.01	0	
12/27/2023	6.72	6.73	0.01	0	
1/4/2024	-	7.55	0	0	
1/12/2024	6.63	6.64	0.01	0	
1/18/2024	6.91	6.92	0.01	0	
1/24/2024	7.04	7.05	0.01	0	
2/2/2024	-	6.75	0	0	
2/7/2024	-	7.25	0	0	
2/12/2024	-	7.51	0	0	
2/23/2024	-	7.32	0	0	
3/1/2024	-	7.28	0	0	
3/7/2024	-	6.56	0	0	
3/11/2024	-	6.34	0	0	
3/21/2024	-	7.3	0	0	
3/26/2024	-	7.25	0	0	
4/5/2024	-	6.65	0	0	
4/10/2024	-	6.76	0	0	
4/16/2024	-	6.77	0	0	
4/22/2024	-	7.15	0	0	
5/3/2024	-	7.61	0	0	
5/8/2024	-	7.65	0	0	
5/16/2024	-	8.00	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/23/2024	-	7.95	0	0	
5/28/2024	-	8.05	0	0	
6/5/2024	-	7.96	0	0	
6/11/2024	-	7.85	0	0	
6/20/2024	-	7.88	0	0	
6/25/2024	-	7.81	0	0	
7/1/2024	-	8.45	0	0	
7/12/2024	-	8.41	0	0	
7/16/2024	-	8.6	0	0	
7/24/2024	-	8.58	0	0	
7/29/2024	-	7.49	0	0	
8/6/2024	-	8.55	0	0	
8/13/2024	-	7.9	0	0	
8/19/2024	-	7.62	0	0	
8/30/2024	-	7.71	0	0	
9/5/2024	-	8.28	0	0	
9/9/2024	-	8.35	0	0	
9/20/2024	-	8.62	0	0	
9/25/2024	-	8.64	0	0	
10/1/2024	-	8.71	0	0	
10/10/2024	-	8.75	0	0	
10/14/2024	8.85	9.08	0.23	0	
10/24/2024	8.95	9.45	0.5	0	
10/30/2024	9.00	9.54	0.54	0	
11/8/2024	9.12	9.52	0.4	0	
11/14/2024	9.20	9.45	0.25	0	
11/18/2024	9.20	9.68	0.48	0	
11/25/2024	9.20	9.55	0.35	0	
12/6/2024	9.23	9.55	0.32	0	
12/13/2024	8.93	8.98	0.05	0	
12/18/2024	8.13	8.14	0.01	0	
Maximum	9.41	10.55	1.34	0.06	
Minimum	6.63	6.34	0.00	0.00	
Average	8.33	8.17	0.07	0.00	
Total NAPL Removed (gal)				0.06	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	8.23	8.45	0.22	0	
1/11/2022	8.29	8.64	0.35	0	
1/20/2022	8.25	8.61	0.36	0	
1/27/2022	8.18	8.55	0.37	0.06	8.30/8.30.5
2/1/2022	8.34	8.85	0.51	0.06	
2/8/2022	8.21	8.81	0.6	0.06	
2/18/2022	8.22	8.44	0.22	0	
2/23/2022	8.15	8.51	0.36	0.06	
3/4/2022	7.98	8.25	0.27	0	
3/10/2022	7.01	7.89	0.88	0	
3/15/2022	7.64	7.75	0.11	0	
3/22/2022	7.62	7.66	0.04	0	
3/29/2022	7.6	7.65	0.05	0	
4/5/2022	7.24	7.29	0.05	0	
4/12/2022	6.95	7.01	0.06	0	
4/21/2022	6.88	6.95	0.07	0	
4/29/2022	7.18	7.31	0.13	0	
5/8/2022	7.58	7.87	0.29	0	
5/13/2022	7.81	7.92	0.11	0	
5/19/2022	7.85	8.25	0.4	0	
5/23/2022	-	7.93	0	0	
6/3/2022	7.48	7.53	0.05	0	
6/10/2022	7.68	7.69	0.01	0	
6/16/2022	7.91	7.97	0.06	0	
6/24/2022	7.98	8.11	0.13	0	
6/28/2022	8.03	8.2	0.17	0	
7/8/2022	8.22	8.35	0.13	0	
7/15/2022	8.28	8.39	0.11	0	
7/19/2022	8.11	8.25	0.14	0	
7/27/2022	8.45	8.62	0.17	0	
8/4/2022	8.55	8.67	0.12	0	
8/12/2022	8.58	8.76	0.18	0.13	
8/18/2022	9.00	9.10	0.10	0	
8/25/2022	8.95	9.86	0.91	0.13	
9/1/2022	8.83	9.01	0.18	0	
9/9/2022	8.73	8.89	0.16	0	
9/13/2022	8.75	8.76	0.01	0	
9/20/2022	8.78	9.11	0.33	0	
9/26/2022	9.31	10.01	0.7	0.19	
10/3/2022	9.25	9.80	0.55	0.06	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	9.28	9.32	0.04	0	
10/17/2022	8.72	9.25	0.53	0	
10/28/2022	9.21	10.58	1.37	0	
11/1/2022	8.82	10.09	1.27	0	
11/9/2022	8.85	10.01	1.16	0	
11/14/2022	8.83	9.92	1.09	0	
11/21/2022	8.77	9.41	0.64	0	
12/9/2022	-	8.25	0	0	
12/15/2022	-	8.72	0	0	
12/21/2022	-	8.15	0	0	
12/28/2022	-	8.0000	0	0	
1/4/2023	-	7.61	0	0	
1/12/2023	-	7.75	0	0	
1/19/2023	7.61	7.62	0.01	0	
1/24/2023	-	7.23	0	0	
2/1/2023	7.45	7.46	0.01	0	
2/6/2023	7.9	7.91	0.01	0	
2/17/2023	7.68	7.75	0.07	0	
2/23/2023	-	7.95	0	0	
2/27/2023	8.5	8.51	0.01	0	
3/8/2023	7.71	7.81	0.1	0	
3/13/2023	7.65	7.66	0.01	0	
3/21/2023	-	8	0	0	
4/3/2023	8.03	8.04	0.01	0	
4/14/2023	8.5	8.78	0.28	0	
4/20/2023	8.35	8.82	0.47	0	
4/27/2023	7.88	7.98	0.1	0	
5/10/2023	7.81	8.02	0.21	0	
5/19/2023	7.78	7.99	0.21	0	
5/23/2023	7.77	7.89	0.12	0	
5/31/2023	8.45	8.9	0.45	0	
6/6/2023	8.68	9.31	0.63	0	
6/14/2023	8.58	8.86	0.28	0	
6/23/2023	8.85	9.51	0.66	0	
6/29/2023	8.8	9.52	0.72	0	
7/5/2023	8.68	9.35	0.67	0	
7/11/2023	-	7.83	0	0	
7/19/2023	7.68	7.69	0.01	0	
7/26/2023	-	7.62	0	0	
8/1/2023	8	8.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	8.03	8.04	0.01	0	
8/17/2023	7.98	7.99	0.01	0	
8/23/2023	7.8	7.81	0.01	0	
8/29/2023	7.93	7.94	0.01	0	
9/6/2023	8.3	8.31	0.01	0	
9/15/2023	8.2	8.45	0.25	0	
9/19/2023	7.84	7.9	0.06	0	
9/28/2023	7.91	8.09	0.18	0	
10/3/2023	7.50	7.51	0.01	0	
10/11/2023	7.40	7.41	0.01	0	
10/17/2023	7.45	7.50	0.05	0	
10/23/2023	7.13	7.14	0.01	0	
11/7/2023	6.95	6.96	0.01	0	
11/13/2023	7.65	7.72	0.07	0	
11/20/2023	7.82	7.90	0.08	0	
11/28/2023	7.90	7.99	0.09	0	
12/8/2023	7.55	7.65	0.10	0	
12/13/2023	7.00	7.24	0.24	0	
12/20/2023	6.62	6.71	0.09	0	
12/27/2023	6.58	6.68	0.10	0	
1/4/2024	7.25	7.85	0.6	0	
1/12/2024	6.42	6.84	0.42	0	
1/18/2024	6.71	7.59	0.88	0	
1/24/2024	6.61	7.21	0.6	0	
2/2/2024	6.35	7.01	0.66	0	
2/7/2024	6.66	7.42	0.76	0	
2/12/2024	7.22	8.3	1.08	0	
2/23/2024	6.88	7.95	1.07	0	
3/1/2024	6.88	7.89	1.01	0	
3/7/2024	6.32	7.12	0.8	0	
3/11/2024	6.11	7.21	1.1	0	
3/21/2024	7.01	8.26	1.25	0	
3/26/2024	6.88	8.21	1.33	0	
4/5/2024	6.21	7.29	1.08	0	
4/10/2024	6.31	7.33	1.02	0	
4/16/2024	6.48	7.01	0.53	0	
4/22/2024	6.85	7.65	0.8	0	
5/3/2024	7.01	7.69	0.68	0	
5/8/2024	7.21	7.71	0.5	0	
5/16/2024	7.71	8.75	1.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/23/2024	7.55	8.11	0.56	0	
5/28/2024	7.60	8.51	0.91	0	
6/5/2024	7.65	8.4	0.75	0	
6/11/2024	7.71	8.52	0.81	0	
6/20/2024	7.76	8.59	0.83	0	
6/25/2024	7.00	8.49	1.49	0	
7/1/2024	8.25	9.36	1.11	0	
7/12/2024	8.15	8.66	0.51	0	
7/16/2024	8.2	8.59	0.39	0	
7/24/2024	8.17	8.6	0.43	0	
7/29/2024	8.11	8.18	0.07	0	
8/6/2024	8.45	8.58	0.13	0	
8/13/2024	7.65	7.66	0.01	0	pumped oil out
8/19/2024	-	7.22	0	0	
8/30/2024	-	7.32	0	0	
9/5/2024	7.91	7.92	0.01	0	
9/9/2024	8.3	8.31	0.01	0	
9/20/2024	8.28	8.29	0.01	0	
9/25/2024	8.3	8.31	0.01	0	
10/1/2024	8.61	8.91	0.30	0	
10/10/2024	8.65	8.92	0.27	0	
10/14/2024	8.44	8.81	0.37	0	
10/24/2024	8.54	9.16	0.62	0	
10/30/2024	8.77	9.75	0.98	0	
11/8/2024	8.85	9.85	1.00	0	
11/14/2024	8.95	10.00	1.05	0	
11/18/2024	8.95	10.21	1.26	0	
11/25/2024	9.00	9.99	0.99	0	
12/6/2024	8.85	9.83	0.98	0	
12/13/2024	-	8.59	0	0	
12/18/2024	-	8.19	0	0	
Maximum	9.31	10.58	1.49	0.19	
Minimum	6.11	6.68	0.00	0.00	
Average	7.90	8.26	0.37	0.00	
Total NAPL Removed (gal)				0.75	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	7.68	0	0	
1/11/2022	-	7.9	0	0	
1/20/2022	-	7.82	0	0	
1/27/2022	-	7.75	0	0	
2/1/2022	-	8.03	0	0	
2/8/2022	-	7.75	0	0	
2/18/2022	-	7.98	0	0	
2/23/2022	-	7.74	0	0	
3/4/2022	-	7.34	0	0	
3/10/2022	-	7.16	0	0	
3/15/2022	-	7.04	0	0	
3/22/2022	-	6.91	0	0	
3/29/2022	-	7.05	0	0	
4/5/2022	-	6.68	0	0	
4/12/2022	-	6.36	0	0	
4/21/2022	-	6.34	0	0	
4/29/2022	-	7.89	0	0	
5/8/2022	-	7.28	0	0	
5/13/2022	-	7.61	0	0	
5/19/2022	-	7.62	0	0	
5/23/2022	-	7.78	0	0	
6/3/2022	-	7.03	0	0	
6/10/2022	-	7.39	0	0	
6/16/2022	-	7.83	0	0	
6/24/2022	-	7.8	0	0	
6/28/2022	-	7.89	0	0	
7/8/2022	-	8.18	0	0	
7/15/2022	-	8.19	0	0	
7/19/2022	-	8.01	0	0	
7/27/2022	-	8.41	0	0	
8/4/2022	-	8.55	0	0	
8/12/2022	-	8.59	0	0	
8/18/2022	-	9.19	0	0	
8/25/2022	-	9.09	0	0	
9/1/2022	-	8.88	0	0	
9/9/2022	-	8.82	0	0	
9/13/2022	-	8.78	0	0	
9/20/2022	-	8.85	0	0	
9/26/2022	-	9.15	0	0	
10/3/2022	-	9.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	9.38	0	0	
10/17/2022	-	8.78	0	0	
10/28/2022	-	9.42	0	0	
11/1/2022	-	8.86	0	0	
11/9/2022	-	8.91	0	0	
11/14/2022	-	8.86	0	0	
11/21/2022	-	8.79	0	0	
12/9/2022	-	7.61	0	0	
12/15/2022	-	8.42	0	0	
12/21/2022	-	7.99	0	0	
12/28/2022	-	7.62	0	0	
1/4/2023	-	6.96	0	0	
1/12/2023	-	7.71	0	0	
1/19/2023	-	7.55	0	0	
1/24/2023	-	6.51	0	0	
2/1/2023	-	7.11	0	0	
2/6/2023	-	7.71	0	0	
2/17/2023	7.78	7.81	0.03	0	
2/23/2023	-	7.89	0	0	
2/27/2023	-	8.38	0	0	
3/8/2023	-	7.13	0	0	
3/13/2023	-	7.12	0	0	
3/21/2023	-	7.65	0	0	
4/3/2023	-	7.73	0	0	
4/14/2023	8.45	8.46	0.01	0	
4/20/2023	-	8.18	0	0	
4/27/2023	-	7.47	0	0	
5/10/2023	-	7.75	0	0	
5/19/2023	-	7.52	0	0	
5/23/2023	-	7.46	0	0	
5/31/2023	-	8.51	0	0	
6/6/2023	-	8.76	0	0	
6/14/2023	-	8.75	0	0	
6/23/2023	-	8.92	0	0	
6/29/2023	-	8.88	0	0	
7/5/2023	-	8.8	0	0	
7/11/2023	-	7.31	0	0	
7/19/2023	-	7.69	0	0	
7/26/2023	-	7.41	0	0	
8/1/2023	-	7.85	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	-	7.81	0	0	
8/17/2023	-	7.81	0	0	
8/23/2023	-	7.78	0	0	
8/29/2023	-	7.86	0	0	
9/6/2023	-	8.32	0	0	
9/15/2023	-	8.01	0	0	
9/19/2023	-	7.99	0	0	
9/28/2023	-	7.55	0	0	
10/3/2023	-	6.90	0	0	
10/11/2023	-	7.16	0	0	
10/17/2023	-	6.85	0	0	
10/23/2023	-	6.59	0	0	
11/7/2023	-	6.65	0	0	
11/13/2023	-	7.40	0	0	
11/20/2023	-	7.49	0	0	
11/28/2023	-	7.35	0	0	
12/8/2023	-	7.20	0	0	
12/13/2023	-	6.65	0	0	
12/20/2023	-	5.91	0	0	
12/27/2023	-	5.82	0	0	
1/4/2024	-	6.95	0	0	
1/12/2024	-	6.16	0	0	
1/18/2024	-	6.60	0	0	
1/24/2024	-	6.75	0	0	
2/2/2024	-	6.42	0	0	
2/7/2024	-	6.88	0	0	
2/12/2024	-	7.00	0	0	
2/23/2024	-	6.90	0	0	
3/1/2024	-	6.87	0	0	
3/7/2024	-	6.05	0	0	
3/11/2024	-	5.60	0	0	
3/21/2024	-	6.95	0	0	
3/26/2024	-	6.74	0	0	
4/5/2024	-	6.41	0	0	
4/10/2024	-	6.12	0	0	
4/16/2024	-	6.08	0	0	
4/22/2024	-	6.85	0	0	
5/3/2024	-	6.89	0	0	
5/8/2024	-	7.08	0	0	
5/16/2024	-	7.89	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-C Diameter: 1 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/23/2024	-	7.39	0	0	
5/28/2024	-	7.80	0	0	
6/5/2024	-	8.00	0	0	
6/11/2024	-	8.00	0	0	
6/20/2024	-	8.02	0	0	
6/25/2024	-	7.95	0	0	
7/1/2024	-	8.4	0	0	
7/12/2024	-	8.35	0	0	
7/16/2024	-	8.09	0	0	
7/24/2024	-	8.05	0	0	
7/29/2024	-	8.45	0	0	
8/6/2024	-	8.52	0	0	
8/13/2024	-	7.61	0	0	
8/19/2024	-	7.35	0	0	
8/30/2024	-	7.3	0	0	
9/5/2024	-	7.69	0	0	
9/9/2024	-	8.21	0	0	
9/20/2024	-	8.15	0	0	
9/25/2024	-	8.18	0	0	
10/1/2024	-	8.6	0	0	
10/10/2024	-	8.69	0	0	
10/14/2024	-	8.45	0	0	
10/24/2024	-	8.54	0	0	
10/30/2024	-	9	0	0	
11/8/2024	-	9.11	0	0	
11/14/2024	-	8.94	0	0	
11/18/2024	-	9.04	0	0	
11/25/2024	-	8.99	0	0	
12/6/2024	-	9.22	0	0	
12/13/2024	-	8.51	0	0	
12/18/2024	-	7.68	0	0	
Maximum	8.45	9.42	0.03	0	
Minimum	7.78	5.60	0.00	0	
Average	8.12	7.76	0.00	0	
Total NAPL Removed (gal)				0.0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	8.28	8.41	0.13	0	
1/11/2022	8.36	8.41	0.05	0	
1/20/2022	8.32	8.4	0.08	0	
1/27/2022	-	8.26	0	0	
2/1/2022	8.65	8.68	0.03	0	
2/8/2022	-	7.68	0	0	
2/18/2022	-	7.39	0	0	
2/23/2022	-	7.24	0	0	
3/4/2022	-	7.13	0	0	
3/10/2022	-	6.96	0	0	
3/15/2022	-	6.74	0	0	
3/22/2022	-	6.74	0	0	
3/29/2022	-	6.74	0	0	
4/5/2022	-	6.46	0	0	
4/12/2022	-	6.41	0	0	
4/21/2022	-	6.39	0	0	
4/29/2022	-	6.64	0	0	
5/8/2022	-	7.78	0	0	
5/13/2022	-	8.06	0	0	
5/19/2022	-	8.11	0	0	
5/23/2022	-	8.28	0	0	
6/3/2022	7.31	7.32	0.01	0	
6/10/2022	7.7	7.79	0.09	0	
6/16/2022	8.18	8.24	0.06	0	
6/24/2022	8.21	8.34	0.13	0	
6/28/2022	8.28	8.45	0.17	0	
7/8/2022	8.39	8.53	0.14	0	
7/15/2022	8.49	8.71	0.22	0	
7/19/2022	8.02	8.21	0.19	0	
7/27/2022	8.60	9.20	0.6	0	
8/4/2022	8.70	8.71	0.01	0	
8/12/2022	8.75	9.91	1.16	0.13	
8/18/2022	8.85	10.65	1.8	0.13	
8/25/2022	9.58	10.69	1.11	0	
9/1/2022	8.99	9.91	0.92	0.13	
9/9/2022	8.09	9.83	1.74	0.13	
9/13/2022	8.95	9.08	0.13	0	
9/20/2022	8.91	9.75	0.84	0.13	
9/26/2022	8.93	9.85	0.92	0.5	
10/3/2022	9.01	9.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	9.11	9.12	0.01	0	
10/17/2022	8.95	9.88	0.93	0	
10/28/2022	9.08	10.89	1.81	0.25	
11/1/2022	9.01	10.85	1.84	0	
11/9/2022	8.99	11.01	2.02	0	
11/14/2022	9.04	10.31	1.27	0	
11/21/2022	8.91	10.09	1.18	0	
12/9/2022	8.50	9.40	0.90	0	
12/15/2022	8.68	9.60	0.92	0	
12/21/2022	8.35	9.26	0.91	0	
12/28/2022	8.18	9.20	1.02	0	
1/4/2023	7.78	8.12	0.34	0	
1/19/2023	7.85	8.15	0.30	0	
1/24/2023	7.51	7.92	0.41	0	
2/1/2023	7.55	7.82	0.27	0	
2/6/2023	8.16	9.19	1.03	0	
2/17/2023	8.15	9.06	0.91	0	
2/23/2023	8.22	8.98	0.76	0	
2/27/2023	8.39	9.7	1.31	0	
3/8/2023	8.01	8.82	0.81	0	
3/13/2023	7.95	8.89	0.94	0	
3/21/2023	7.96	9.98	2.02	0	
4/3/2023	8.18	9.32	1.14	0	
4/14/2023	8.36	10	1.64	0	
4/20/2023	8.55	9.95	1.4	0	
4/27/2023	8.16	8.87	0.71	0	
5/10/2023	7.95	9.5	1.55	0	
5/13/2023	8.64	9.59	0.95	0	
5/19/2023	8.00	9.48	1.48	0	
5/23/2023	9.02	9.46	0.44	0	
6/6/2023	10.41	10.59	0.18	0	
6/14/2023	8.55	9.33	0.78	0	
6/23/2023	10.41	10.83	0.42	0	
6/29/2023	10.50	10.93	0.43	0	
7/5/2023	10.00	10.9	0.9	0	
7/11/2023	8.31	8.51	0.2	0	
7/19/2023	7.94	8.48	0.54	0	
7/26/2023	8.01	8.78	0.77	0	
8/1/2023	8.00	9.2	1.2	0	
8/11/2023	8.05	9.16	1.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/17/2023	7.98	9.15	1.17	0	
8/23/2023	7.96	9.01	1.05	0	
8/29/2023	8.01	9.05	1.04	0	
9/6/2023	8.21	9.88	1.67	0	
9/15/2023	8.38	9.68	1.3	0	
9/19/2023	8.49	9.37	0.88	0	
9/28/2023	7.91	8.72	0.81	0	
10/3/2023	7.40	8.61	1.21	0	
10/11/2023	7.41	8.65	1.24	0	
10/17/2023	7.42	8.51	1.09	0	
10/23/2023	7.45	8.46	1.01	0	
11/7/2023	7.50	7.82	0.32	0	
11/13/2023	7.81	9.20	1.39	0	
11/20/2023	7.95	9.35	1.40	0	
11/28/2023	7.86	9.00	1.14	0	
12/8/2023	7.89	9.55	1.66	0	
12/13/2023	7.71	9.01	1.30	0	
12/20/2023	7.05	8.92	1.87	0	
12/27/2023	7.00	8.90	1.90	0	
1/4/2024	7.2	9.69	2.49	0	
1/12/2024	6.98	8.76	1.78	0	
1/18/2024	6.81	8.71	1.9	0	
1/24/2024	6.85	8.96	2.11	0	
2/2/2024	6.55	8.23	1.68	0	
2/7/2024	6.91	8.55	1.64	0	
2/12/2024	7.31	10.05	2.74	0	
2/23/2024	7.22	10	2.78	0	
3/1/2024	7.33	9.66	2.33	0	
3/7/2024	6.5	9.11	2.61	0	
3/11/2024	6.32	9.98	3.66	0	
3/21/2024	7.11	9.89	2.78	0	
3/26/2024	7	9.75	2.75	0	
4/5/2024	6.48	9.11	2.63	0	
4/10/2024	6.51	9.06	2.55	0	
4/16/2024	6.52	9.04	2.52	0	
4/22/2024	6.94	9.15	2.21	0	
5/3/2024	7.16	9.41	2.25	0	
5/8/2024	7.28	9.01	1.73	0	
5/16/2024	7.61	9.4	1.79	0	
5/23/2024	7.72	9.43	1.71	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/28/2024	7.75	9.5	1.75	0	
6/5/2024	7.80	9.31	1.51	0	
6/11/2024	7.70	9.25	1.55	0	
6/20/2024	7.72	9.32	1.6	0	
6/25/2024	7.71	9.19	1.48	0	
7/1/2024	8.25	9.35	1.1	0	
7/12/2024	8	9.18	1.18	0	
7/16/2024	8.34	9.34	1	0	
7/24/2024	8.27	8.49	0.22	0	
7/29/2024	8.25	9.34	1.09	0	
8/6/2024	8.4	9.26	0.86	0	
8/13/2024	7.75	8.59	0.84	0.03	pumped oil out 1/8 of quart
8/19/2024	7.41	8.61	1.2	0	
8/30/2024	7.55	8.68	1.13	0	
9/5/2024	8.06	8.89	0.83	0	
9/9/2024	8.22	9.43	1.21	0	
9/20/2024	8.41	8.62	0.21	0	
9/25/2024	8.44	8.65	0.21	0	
10/1/2024	8.41	9.55	1.14	0	
10/10/2024	8.45	9.81	1.36	0	
10/14/2024	8.55	9.76	1.21	0	
10/24/2024	8.71	10.06	1.35	0	
10/30/2024	9.14	10.74	1.6	0	
11/8/2024	8.85	10.45	1.6	0	
11/14/2024	8.82	10.25	1.43	0	
11/18/2024	8.85	10.75	1.9	0	
11/25/2024	8.91	10.45	1.54	0	
12/6/2024	9.09	10.71	1.62	0	
12/13/2024	8.81	9.49	0.68	0	
12/18/2024	8.47	9.18	0.71	0	
Maximum	10.50	11.01	3.66	0.50	
Minimum	6.32	6.39	0.00	0.00	
Average	8.12	9.05	1.04	0.01	
Total NAPL Removed (gal)				1.43	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-E Diameter: 1 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
1/4/2022	-	8.38	0	0	
1/11/2022	-	8.34	0	0	
1/20/2022	-	8.35	0	0	
1/27/2022	-	8.29	0	0	
2/1/2022	-	8.45	0	0	
2/8/2022	-	8.31	0	0	
2/18/2022	-	8.37	0	0	
2/23/2022	-	8.29	0	0	
3/4/2022	-	8.28	0	0	
3/10/2022	-	8.24	0	0	
3/15/2022	-	7.81	0	0	
3/22/2022	-	7.93	0	0	
3/29/2022	-	7.86	0	0	
4/5/2022	-	7.49	0	0	
4/12/2022	-	7.13	0	0.25	
4/21/2022	-	7.28	0	0	
4/29/2022	-	7.34	0	0	
5/8/2022	-	7.84	0	0	
5/13/2022	-	8.09	0	0	
5/19/2022	-	8.05	0	0	
5/23/2022	-	8.12	0	0	
6/3/2022	-	7.65	0	0	
6/10/2022	-	7.73	0	0	
6/16/2022	-	8.01	0	0	
6/24/2022	-	8.04	0	0	
6/28/2022	-	8.18	0	0	
7/8/2022	-	8.38	0	0	
7/15/2022	-	8.53	0	0	
7/19/2022	-	8.22	0	0	
7/27/2022	-	8.63	0	0	
8/4/2022	-	9.28	0	0	
8/12/2022	-	8.82	0	0	
8/18/2022	-	9.39	0	0	
8/25/2022	-	9.25	0	0	
9/1/2022	-	9.21	0	0	
9/9/2022	-	8.95	0	0	
9/13/2022	-	9.02	0	0	
9/20/2022	-	8.92	0	0	
9/26/2022	-	9.41	0	0	
10/3/2022	-	9.60	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	-	9.38	0	0	
10/17/2022	-	8.95	0	0	
10/28/2022	-	9.58	0	0	
11/1/2022	-	9.11	0	0	
11/9/2022	-	9.05	0	0	
11/14/2022	-	9.18	0	0	
11/21/2022	-	8.99	0	0	
12/9/2022	-	8.61	0	0	
12/15/2022	-	9.01	0	0	
12/21/2022	-	8.75	0	0	
12/28/2022	-	8.43	0	0	
1/4/2023	-	7.92	0	0	
1/12/2023	-	8.4	0	0	
1/19/2023	-	8.32	0	0	
1/24/2023	-	7.76	0	0	
2/1/2023	7.95	8.02	0.07	0	
2/6/2023	-	8.31	0	0	
2/17/2023	-	8.11	0	0	
2/23/2023	-	8.42	0	0	
2/27/2023	8.81	8.82	0.01	0	
3/8/2023	-	8.01	0	0	
3/13/2023	-	8.03	0	0	
3/21/2023	-	8.61	0	0	
4/3/2023	-	8.16	0	0	
4/14/2023	8.82	8.83	0.01	0	
4/20/2023	-	8.65	0	0	
4/27/2023	-	8.21	0	0	
5/10/2023	-	8.31	0	0	
5/19/2023	-	8.22	0	0	
5/23/2023	-	8.19	0	0	
5/31/2023	-	8.76	0	0	
6/6/2023	-	8.91	0	0	
6/14/2023	-	8.83	0	0	
6/23/2023	-	9.24	0	0	
6/29/2023	-	9.31	0	0	
7/5/2023	-	9.25	0	0	
7/11/2023	-	8.3	0	0	
7/19/2023	-	8.32	0	0	
7/26/2023	-	8.21	0	0	
8/1/2023	-	8.29	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-E Diameter: 1 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
8/11/2023	-	8.26	0	0	
8/17/2023	-	8.25	0	0	
8/23/2023	-	8.32	0	0	
8/29/2023	-	8.4	0	0	
9/6/2023	-	8.63	0	0	
9/15/2023	-	8.43	0	0	
9/19/2023	-	8.39	0	0	
9/28/2023	8.21	8.22	0.01	0	
10/3/2023	7.55	7.56	0.01	0	
10/11/2023	-	7.75	0	0	
10/17/2023	7.41	7.53	0.12	0	
10/23/2023	-	7.52	0	0	
11/7/2023	-	8.00	0	0	
11/13/2023	-	7.79	0	0	
11/20/2023	-	7.82	0	0	
11/28/2023	-	7.54	0	0	
12/8/2023	-	8.01	0	0	
12/13/2023	-	7.44	0	0	
12/20/2023	-	8.13	0	0	
12/27/2023	-	8.15	0	0	
1/4/2024	-	7.95	0	0	
1/12/2024	-	7.12	0	0	
1/18/2024	-	7.49	0	0	
1/24/2024	-	7.03	0	0	
2/2/2024	-	7.29	0	0	
2/7/2024	-	7.88	0	0	
2/12/2024	7.85	7.86	0.01	0	
2/23/2024	7.88	7.89	0.01	0	
3/1/2024	7.84	7.85	0.01	0	
3/7/2024	-	7.02	0	0	
3/11/2024	-	6.99	0	0	
3/21/2024	-	7.62	0	0	
3/26/2024	-	7.5	0	0	
4/5/2024	-	6.68	0	0	
4/10/2024	-	6.68	0	0	
4/16/2024	-	6.61	0	0	
4/22/2024	-	7.46	0	0	
5/3/2024	-	7.31	0	0	
5/8/2024	-	7.45	0	0	
5/16/2024	-	7.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/23/2024	-	8.12	0	0	
5/28/2024	-	8.15	0	0	
6/5/2024	-	8.09	0	0	
6/11/2024	-	8	0	0	
6/20/2024	8.01	8.02	0.01	0	
6/25/2024	-	7.98	0	0	
7/1/2024	-	8.54	0	0	
7/12/2024	-	8.46	0	0	
7/16/2024	-	8.66	0	0	
7/24/2024	-	5.85	0	0	
7/29/2024	-	8.58	0	0	
8/6/2024	-	8.71	0	0	
8/13/2024	-	8.12	0	0	
8/19/2024	-	7.77	0	0	
8/30/2024	-	7.81	0	0	
9/5/2024	-	8.08	0	0	
9/9/2024	-	8.52	0	0	
9/20/2024	-	8.73	0	0	
9/25/2024	-	8.74	0	0	
10/1/2024	-	8.72	0	0	
10/10/2024	-	8.74	0	0	
10/14/2024	-	9	0	0	
10/24/2024	-	9.11	0	0	
10/30/2024	-	9.06	0	0	
11/8/2024	-	9.25	0	0	
11/14/2024	-	9.13	0	0	
11/18/2024	-	9.22	0	0	
11/25/2024	-	9.31	0	0	
12/6/2024	-	9.42	0	0	
12/13/2024	-	9.08	0	0	
12/18/2024	-	8.39	0	0	
Maximum	8.82	9.60	0.12	0.25	
Minimum	7.41	5.85	0.00	0.00	
Average	8.03	8.27	0.00	0.00	
Total NAPL Removed (gal)				0.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/4/2022	-	5.35	0	0	
1/11/2022	-	5.51	0	0	
1/20/2022	-	5.4	0	0	
1/27/2022	-	5.3	0	0	
2/1/2022	-	5.7	0	0	
2/8/2022	-	5.06	0	0	
2/18/2022	-	5.42	0	0	
2/23/2022	-	5.07	0	0	
3/4/2022	-	4.84	0	0	
3/10/2022	-	4.71	0	0	
3/15/2022	-	4.48	0	0	
3/22/2022	-	4.32	0	0	
3/29/2022	4.38	4.39	0.01	0	
4/5/2022	-	3.64	0	0	
4/12/2022	-	3.41	0	0	
4/21/2022	-	3.38	0	0	
4/29/2022	-	3.84	0	0	
5/8/2022	-	4.78	0	0	
5/13/2022	-	5.19	0	0	
5/19/2022	-	5.18	0	0	
5/23/2022	-	5.42	0	0	
6/3/2022	-	4.02	0	0	
6/10/2022	4.63	4.64	0.01	0	
6/16/2022	-	5.51	0	0	
6/24/2022	-	5.55	0	0	
6/28/2022	-	5.74	0	0	
7/8/2022	-	6.09	0	0	
7/15/2022	-	6.23	0	0	
7/19/2022	-	6	0	0	
7/27/2022	-	6.38	0	0	
8/4/2022	-	6.99	0	0	
8/12/2022	6.68	6.69	0.01	0	
8/18/2022	-	7.75	0	0	
8/25/2022	7.01	7.03	0.02	0	
9/1/2022	7.05	7.06	0.01	0	
9/9/2022	6.61	6.62	0.01	0	
9/13/2022	6.65	6.69	0.04	0	
9/20/2022	6.75	7.05	0.3	0	
9/26/2022	7.71	7.89	0.18	0	
10/3/2022	6.90	7.05	0.15	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2022	6.85	6.98	0.13	0	
10/17/2022	6.58	7.72	1.14	0	
10/28/2022	7.15	9.05	1.9	0	
11/1/2022	6.72	8.64	1.92	0	
11/9/2022	6.80	8.80	2.00	0	
11/14/2022	6.45	6.92	0.47	0	
11/21/2022	6.15	7.41	1.26	0	
12/9/2022	4.85	5.12	0.27	0	
12/15/2022	5.40	5.41	0.01	0	
12/21/2022	4.60	4.62	0.02	0	
12/28/2022	4.42	4.44	0.02	0	
1/4/2023	4.01	4.02	0.01	0	
1/12/2023	4.91	4.92	0.01	0	
1/19/2023	4.56	4.57	0.01	0	
1/24/2023	3.56	3.57	0.01	0	
2/1/2023	4.13	4.42	0.29	0	
2/6/2023	5.01	5.02	0.01	0	
2/17/2023	4.98	4.99	0.01	0	
2/23/2023	5.12	5.13	0.01	0	
2/27/2023	6.05	6.09	0.04	0	
3/8/2023	4.38	4.39	0.01	0	
3/13/2023	4.21	4.22	0.01	0	
3/21/2023	-	5.75	0	0	
4/3/2023	4.95	5.12	0.17	0	
4/14/2023	5.81	5.98	0.17	0	
4/20/2023	5.75	5.78	0.03	0	
4/27/2023	4.43	4.44	0.01	0	
5/10/2023	4.75	4.76	0.01	0	
5/19/2023	-	4.52	0	0	
5/23/2023	-	4.49	0	0	
5/31/2023	-	6.1	0	0	
6/6/2023	-	6.45	0	0	
6/14/2023	-	6.49	0	0	
6/23/2023	6.43	6.45	0.02	0	
6/29/2023	6.51	6.52	0.01	0	
7/5/2023	6.48	6.49	0.01	0	
7/11/2023	-	4.62	0	0	
7/19/2023	4.68	4.69	0.01	0	
7/26/2023	4.69	4.7	0.01	0	
8/1/2023	5.21	5.22	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
8/11/2023	5.19	5.21	0.02	0	
8/17/2023	5.23	5.25	0.02	0	
8/23/2023	5.12	5.13	0.01	0	
8/29/2023	5.16	5.17	0.01	0	
9/6/2023	4.81	4.85	0.04	0	
9/15/2023	6.09	6.1	0.01	0	
9/28/2023	4.85	4.86	0.01	0	
10/3/2023	3.63	3.65	0.02	0	
10/11/2023	4.10	4.11	0.01	0	
10/17/2023	3.60	3.62	0.02	0	
10/23/2023	3.87	3.88	0.01	0	
11/7/2023	3.92	3.93	0.01	0	
11/13/2023	-	5.00	0.00	0	
11/20/2023	-	5.11	0.00	0	
11/28/2023	-	5.01	0.00	0	
12/8/2023	-	4.45	0.00	0	
12/13/2023	-	3.49	0.00	0	
12/20/2023	-	2.89	0.00	0	
12/27/2023	-	3.01	0.00	0	
1/4/2024	-	4.25	0	0	
1/12/2024	-	3.08	0	0	
1/18/2024	-	3.75	0	0	
1/24/2024	-	3.48	0	0	
2/2/2024	-	3.3	0	0	
2/7/2024	-	3.62	0	0	
2/12/2024	4.29	4.3	0.01	0	
2/23/2024	4.02	4.03	0.01	0	
3/1/2024	3.98	3.99	0.01	0	
3/7/2024	-	2.61	0	0	
3/11/2024	-	2.72	0	0	
3/21/2024	-	4.4	0	0	
3/26/2024	-	4	0	0	
4/5/2024	-	2.96	0	0	
4/10/2024	-	3.12	0	0	
4/16/2024	-	3.05	0	0	
4/22/2024	-	3.84	0	0	
5/3/2024	-	4.18	0	0	
5/8/2024	-	4.52	0	0	
5/16/2024	-	5	0	0	
5/23/2024	-	4.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (Off Site OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/28/2024	-	4.95	0	0	
6/5/2024	-	5.21	0	0	
6/11/2024	-	5.65	0	0	
6/20/2024	-	5.68	0	0	
6/25/2024	-	5.59	0	0	
7/1/2024	-	6.25	0	0	
7/12/2024	-	6.12	0	0	
7/16/2024	-	6.01	0	0	
7/24/2024	-	5.85	0	0	
7/29/2024	5.81	5.82	0.01	0	
8/6/2024	6.2	6.21	0.01	0	
8/13/2024	4.41	4.42	0.01	0	
8/19/2024	-	4.02	0	0	
8/30/2024	-	3.99	0	0	
9/5/2024	5.41	5.42	0.01	0	
9/9/2024	5.6	5.61	0.01	0	
9/20/2024	8.05	8.06	0.01	0	
9/25/2024	8.08	8.09	0.01	0	
10/1/2024	6.14	6.15	0.01	0	
10/10/2024	6.21	6.22	0.01	0	
10/14/2024	6.36	6.37	0.01	0	
10/24/2024	6.55	6.56	0.01	0	
10/30/2024	6.91	6.92	0.01	0	
11/8/2024	6.75	6.76	0.01	0	
11/14/2024	6.71	6.72	0.01	0	
11/18/2024	6.72	6.73	0.01	0	
11/25/2024	-	6.95	0	0	
12/6/2024	6.81	6.82	0.01	0	
12/13/2024	-	5.81	0	0	
12/18/2024	5.06	5.12	0.06	0	
Maximum	8.08	9.05	2.00	0	
Minimum	3.56	2.61	0.00	0	
Average	5.55	5.27	0.07	0	
Total NAPL Removed (gal)				0.0	

Attachment E

Institutional and Engineering Control Certification Forms

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 360010

Site Name Harmon Railroad Yard - Waste Water Area

Site Address: Croton Point Road Zip Code: 10519
City/Town: Croton-On-Hudson
County: Westchester
Site Acreage: 5.000

Reporting Period: January 01, 2022 to January 01, 2025

	YES	NO
1. Is the information above correct?	■	□
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	□	■
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	□	■
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	□	■
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	□	■

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	■	□
7. Are all ICs in place and functioning as designed?	■	□

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 360010 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
78.2-2-2	~~Midtown Tracking Ventures, LLC~~ Metropolitan Transportation Authority	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan Building Use Restriction O&M Plan

A Site Management Plan (SMP) was approved in December 2011 to manage remaining contamination at the Site in perpetuity or until extinguishment of the Declaration of Covenants and Restrictions(DCR)in accordance with ECL Article 71, Title 36.

A DCR has being filed on a portion of the parcel that provides an enforceable legal instrument to ensure compliance with the SMP and all ECs and ICs placed on the Site. The DCR (Document 522013528) and access agreement (document 522203411) (Reference for Submitter: crotoncovenants) were recorded with Westchester County Clerk's Office on November 30 2012 Control No. 20120719002480010O2F).

Because there is remaining contamination at this site, Engineering Controls (ECs) and Institutional Controls (ICs) have been implemented to protect public health and the environment for future use. The Controlled Property has the following Engineering Controls:

The engineering controls implemented for OU-1 include the following:

1)installation of permanent sheeting around the lagoon perimeter to a depth approximately three feet into the water table (i.e., to depths of up to about 15+ feet
below the ground surface);

2)installation of a final cover system consisting of two impermeable layers of 40mil high-density polyethylene (HDPE) covered with a geocomposite drainage net,
clean backfill and an asphalt cover;

3)construction of a system of manholes and pipes to direct stormwater to a ripraplined drainage channel located immediately north ofthe asphalt cover; and

4)installation of four-air inlet and vapor extraction well clusters within the former lagoon footprint as a contingency measure.

The engineering controls implemented for OU-2 include the following:

1)A Vacuum Enhanced (VE) system that includes
vertical perforated subsurface piping (wells), connecting piping, blowers and air treatment systems. There were a total of 28 vapor extraction wells and 50 air inlet wells that were installed.

2. An access road to control access to the contaminated area;and

3. Monitoring wells for long-term monitoring of site groundwater.

A series of ICs are required to implement, maintain and monitor these ECs. The DCR requires compliance with these ICs, to ensure that:

• All ECs must be operated and maintained as specified in the SMP;and

• All ECs on the Site must be inspected and certified at a frequency and in a manner defined in the SMP;

and

• Groundwater and other environmental or public health monitoring must be performed as defined in the SMP; and

• Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP; and

• An exclusion against any uses other than for a closed lagoon and an above grade material storage facility/parking area;and

• On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP.

In addition, the DCR places the following restrictions on a portion of the property that includes the Site:

• The site may only be used for its current use as a closed lagoon and an above grade material storage facility/parking area.
• The property may not be used for a higher level of use without additional remediation and amendment of the DCR, as approved by the NYSDEC.
• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.
• The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use.
• Vegetable gardens and farming on the property are prohibited.
• The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the controlled property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

NYSDEC retains the right to access such controlled property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

These EC/ICs are designed to:
• Prevent ingestion/direct contact with contaminated soil
• Prevent exposure to contaminants volatilizing from contaminated soil
• Prevent exposure to onsite groundwater
• Prevent the migration of LNAPL from the small impacted area of the closed lagoon and the release of LNAPL contaminants into groundwater.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
78.2-2-2	Subsurface Barriers Cover System Fencing/Access Control Groundwater Containment Leachate Collection

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
■	□

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
■	□

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 360010

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Sara Gianazza (print name) at 525 North Broadway, White Plains, NY 10603 (print business address),

am certifying as Desinated Representative for Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Sara Gianazza
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

1/27/25
Date

EC CERTIFICATIONS

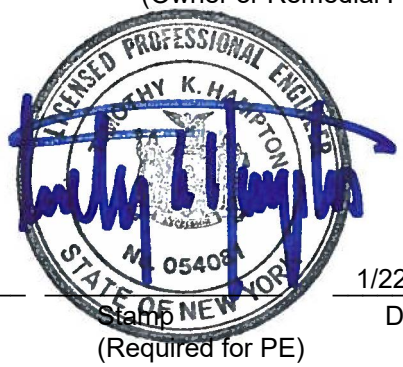
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy K. Hampton, P.E. at 1563 Lyell Avenue, Rochester, NY 14606,
print name print business address

am certifying as a Professional Engineer for the Metro-North Commeter Railroad Company
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

1/22/2025
Date

Attachment F

Monitoring Schedule

Harmon Railroad Yard
NYSDEC Site # 3-60-010
Operable Units OU I and OU II

Monitoring Schedule

Location	Monitoring Frequency	Well Designation	Notes
OU I	Weekly	V-4	
	Monthly	V-1, V-2, and V-3	
	Quarterly	P1 through P5, P7 through P10	Well P-6 is not accessible
OU II Area L-1	Weekly	SP-NORTH, WB-9 and VE1-1	Increase frequency of WB-9 and VE1-1 from quarterly
	Monthly	None	
	Quarterly	AI1-1, AI1-4, AI1-8, AI1-11, AI1-12, AI1-15, AI1-16, AI1-17, VE1-2, VE1-3, and VE1-4	
OU II Area L-2	Weekly	AI2-3	
	Monthly	None	
	Quarterly	AI2-2 and VE2-1	
OU II Area L-3	Weekly	None	
	Monthly	VE3-1	
	Quarterly	AI3-4 and AI3-6	
OU II Area L-4	Weekly	RW-1, FA4-8, FA4-14, FA4-15, FA4-16, FA4-17, FA4-18, PGW-2, and VE4-5	FA4-10 and VE4-13 are not accessible Monitor FA4-11 monthly, not weekly Monitor FA4-13 quarterly, not weekly Monitor FA4-9 monthly, not quarterly Monitor VE4-7 quarterly, not monthly Monitor VE4-8 quarterly, not monthly Monitor VE4-9 quarterly, not monthly
	Monthly	FA4-9, FA4-11, FA4-12, FA4-21, FA4-23, VE4-8, VE4-9, and VE4-13	
	Quarterly	DAY-1, FA4-13, FA4-20, VE4-1, VE4-6, VE4-7, VE4-8, VE4-9, VE4-10, VE4-11, and VE4-12	
Off-Site Wells	Weekly	OUII-A through OUII-F	
Groundwater Sampling/ Testing	Annual	DAY-1, VE1-2, VE1-4, VE2-1, VE3-1, and VE4-11	Long-Term Monitoring per SMP
	Annual	VE1-4, VE2-1, and VE4-11	PFAS & 1,4-dioxane
	Annual	FA4-9, FA4-16, PGW-2, VE 4-7, VE4-9, OUII-A through OUII-F*	PCBs

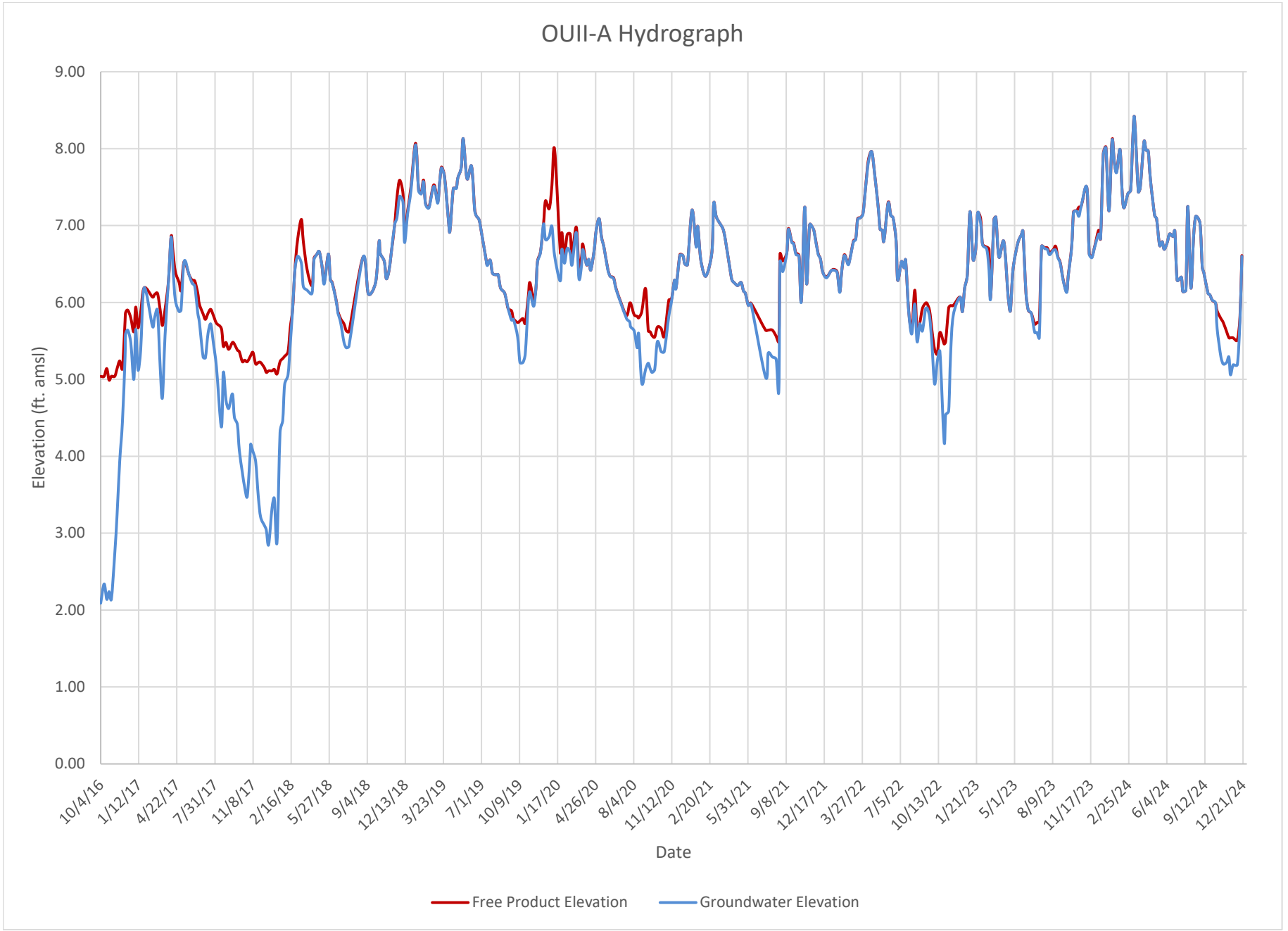
When encountered, NAPL will be removed by various techniques. A Geotech Product Recovery Canister (PRC) Passive Skimmer (i.e., a passive skimmer designed to recover product-only layers) was installed in well FA4-17 in this quarter, and a belt skimmer was installed in well FA4-8 in May 2024. A peristaltic pump connected to a Heron Oil-Water interface probe is used to remove free product from other wells. Five additional Geotech PRC Passive Skimmers have been purchased and are expected to be installed in 2025.The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

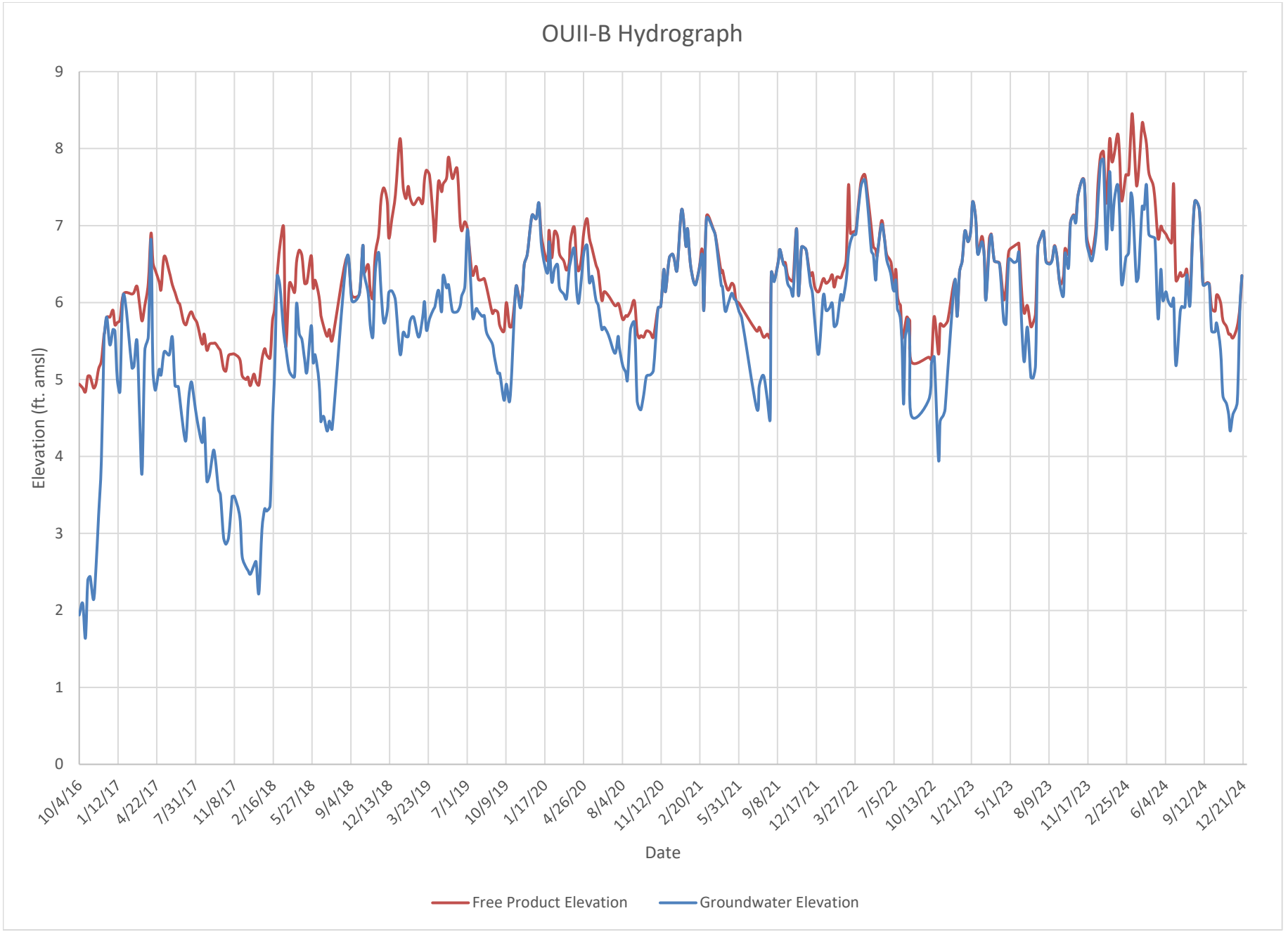
Note: If 0.5 ft. or more of free product is measured in a well (including off-site wells OU-II-A through OU-II-F) it should be removed using the peristaltic pump.

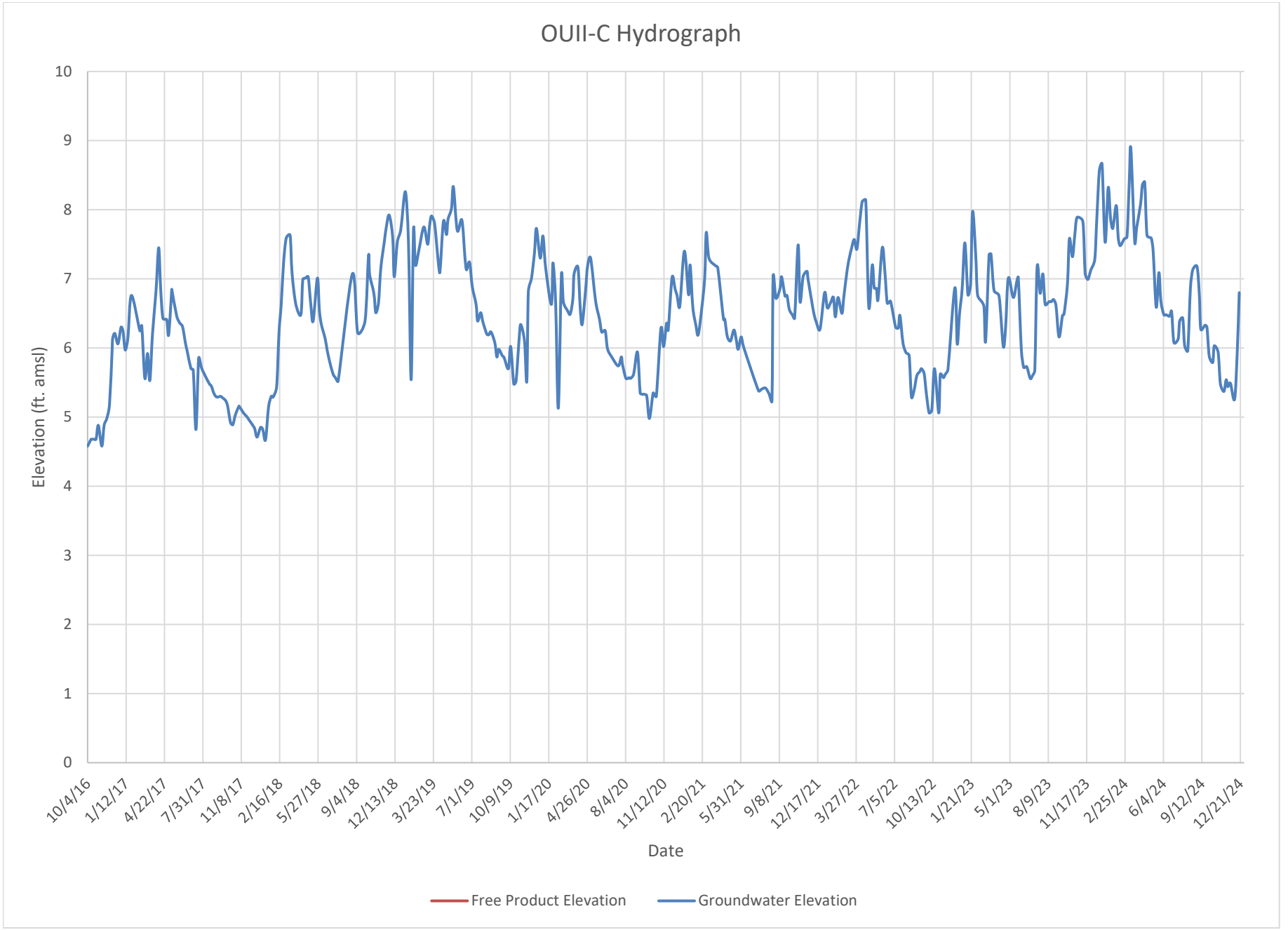
*Samples from off-site wells OUII-A through OUII-F will be collected from the top of the water column without purging. If sufficient free product is present, a sample will be collected for laboratory testing.

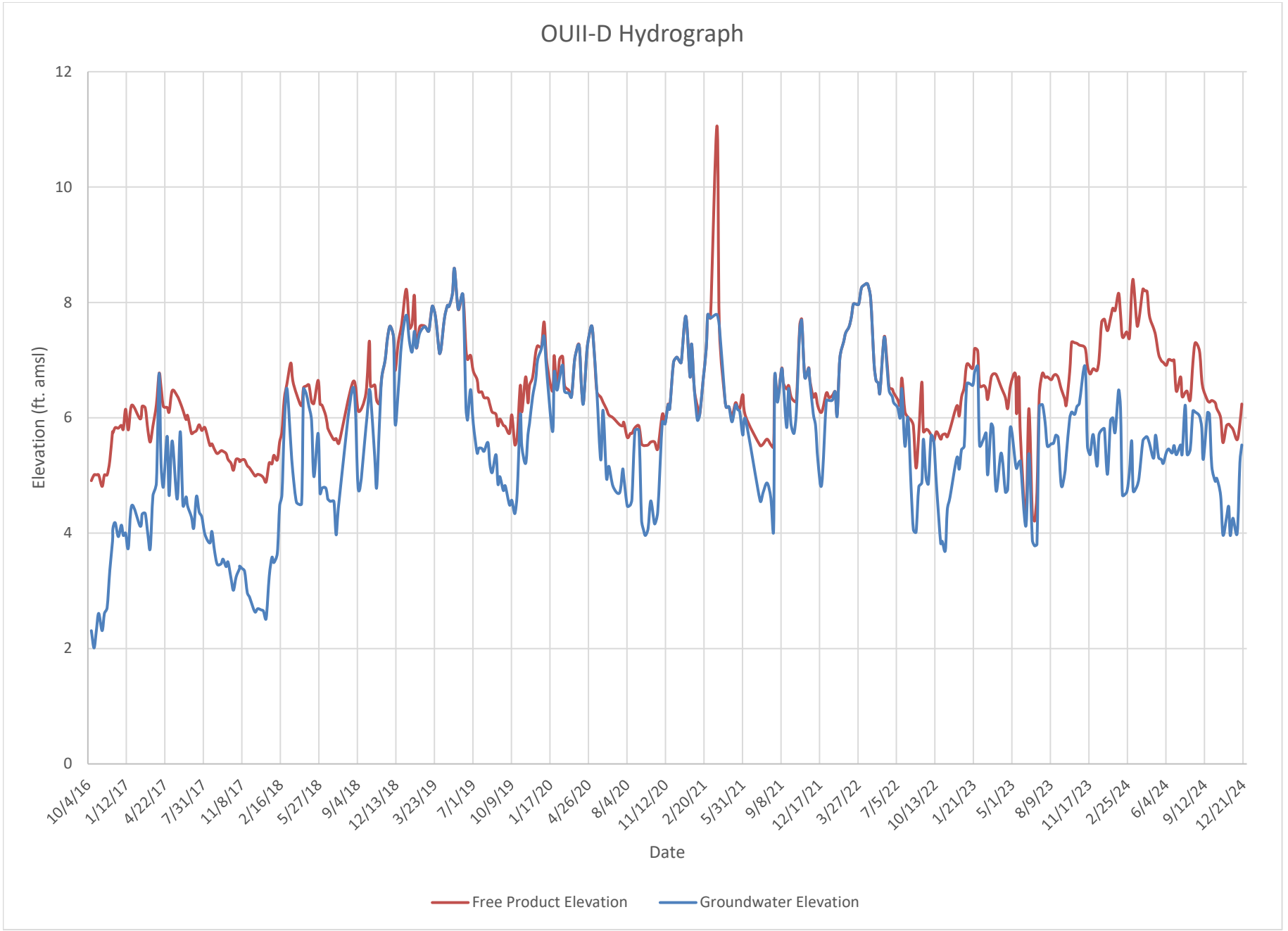
Attachment G

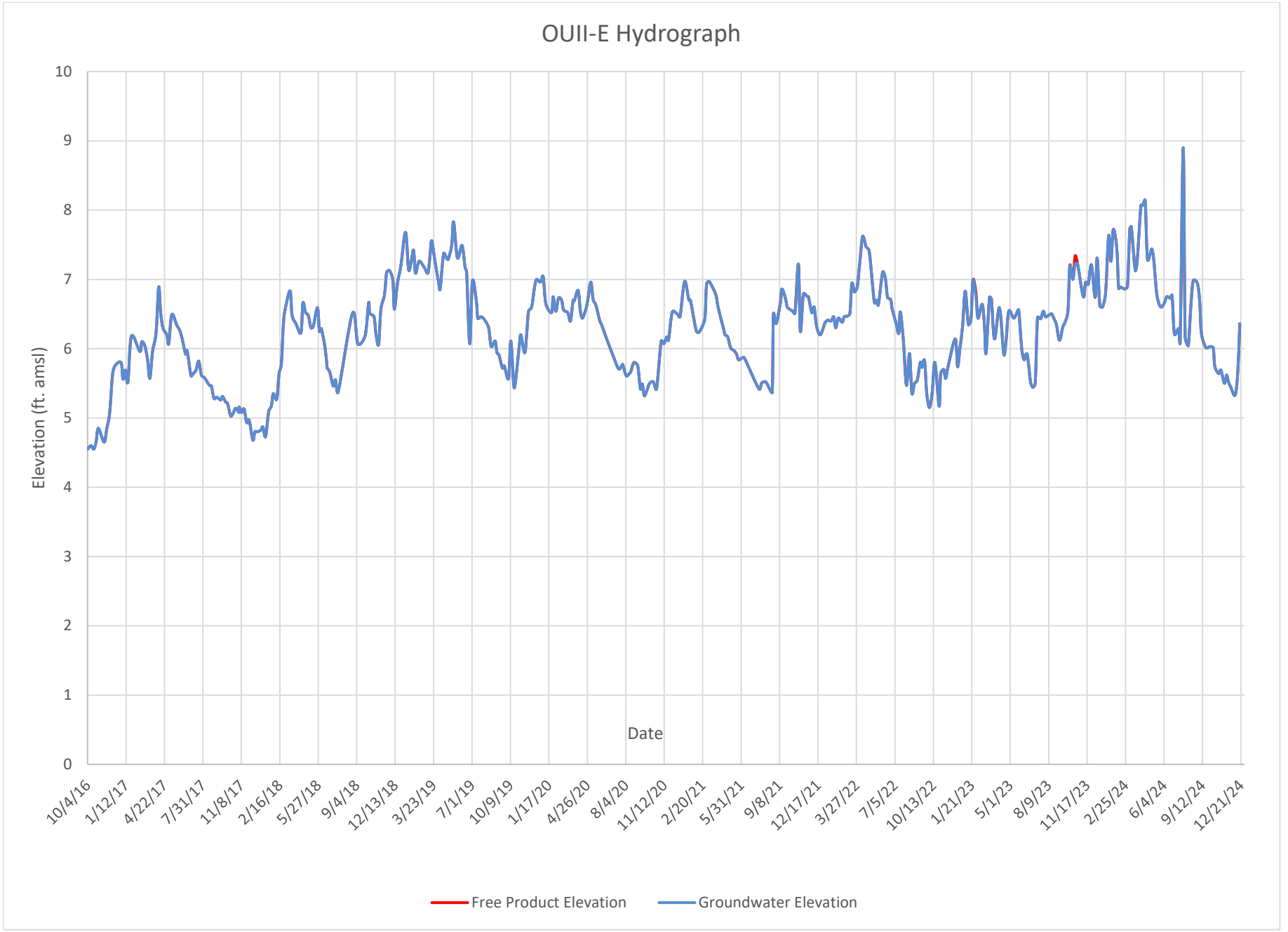
Off-Site Monitoring Well Hydrographs

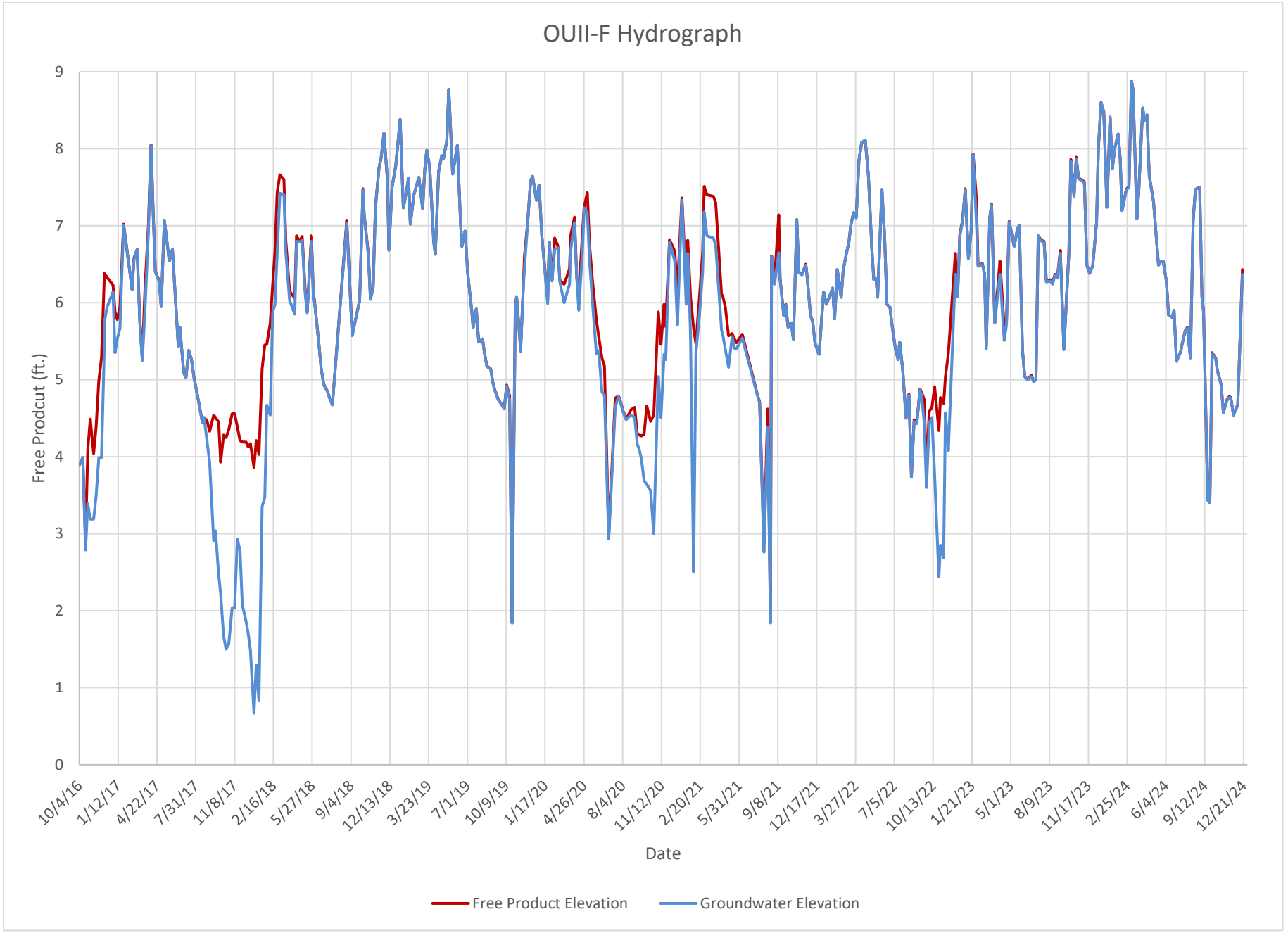

OUII-A Hydrograph
Elevation (ft. amsl)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
10
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
8/9/23
11/17/23
2/25/24
6/4/24
9/12/24
12/21/24
Date
Free Product Elevation
Groundwater Elevation

Attachment H

Data Usability Summary Reports

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32707
May 11, 2023
Sampling date: 8/10/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32707 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	FA4-9	AD32707-001
2	PGW-2	AD32707-002
3	OU11-A	AD32707-003
4	OU11-B	AD32707-004
5	OU11-D	AD32707-005
6	OU11-C	AD32707-006
7	OU11-E	AD32707-007
8	OU11-F	AD32707-008
9	VE4-7	AD32707-009
10	VE-9	AD32707-010
11	FA4-16	AD32707-011
12	DAY-1	AD32707-012

Results were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD

- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD, Initial Calibration and Continuing Calibration.

Samples: DUSR ID#1, #3, #4, #10, #11 and #11MS/MSD were diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met except the extraction log was illegible in the original package. Updated pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.
Some surrogates were outside laboratory QC limits but within NFG QC limits, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except some target analytes were outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec #11MS	%Rec #11MSD	%RPD	Qualifier	Associated Sample
Aroclor 1016	253	158	46	UJ	11
Aroclor 1260	816	353	79	UJ	11

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD was acquired for this analysis.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
No serial dilution was performed for these samples.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering **HC Project:** 2081214
Project: Roaring Brook MNR-Harmon Long

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
FA4-9	AD32707-001	Aqueous	PCB (8082A)
PGW-2	AD32707-002	Aqueous	PCB (8082A)
OU11-A	AD32707-003	Aqueous	PCB (8082A)
OU11-B	AD32707-004	Aqueous	PCB (8082A)
OU11-D	AD32707-005	Aqueous	PCB (8082A)
OU11-C	AD32707-006	Aqueous	PCB (8082A)
OU11-E	AD32707-007	Aqueous	PCB (8082A)
OU11-F	AD32707-008	Aqueous	PCB (8082A)
VE4-7	AD32707-009	Aqueous	PCB (8082A)
VE-9	AD32707-010	Aqueous	PCB (8082A)
FA4-16	AD32707-011	Aqueous	PCB (8082A)
DAY-1	AD32707-012	Aqueous	VOA (8260D), PAH (8270E), PCB (8082A), Metals (6020B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and/or Matrix Spike Duplicate for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 102702 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32707-002, 008, 010, AD32602-002 had a surrogate recovery outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

9/29/22
Date

Reporting Limit Definitions

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 2M172457.D
Analysis Date: 08/17/22 22:07
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	**Benzene**	**0.50**	**0.82**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 680363

Total Target Concentration 0.82

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	Benzene	0.50	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U				

Worksheet #: 680363

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 10M92344.D
Analysis Date: 08/17/22 17:18
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**10**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**17**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**29**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**3.5**
207-08-9	Benzo[k]fluoranthene	2.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB102702
Client Id:
Data File: 10M92345.D
Analysis Date: 08/17/22 17:41
Date Rec/Extracted: NA-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 680366

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: WMB102719

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127949.D	AD32707-011(20X)(MS)	9/8/2022 8:25:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	2529.64	0	1000	253 *	60	130
Aroclor-1260 -Total	1	8163.72	0	1000	816 *	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127950.D	AD32707-011(20X)(MSD)	9/8/2022 8:36:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1580.6	0	1000	158 *	60	130
Aroclor-1260 -Total	1	3532.04	0	1000	353 *	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-001(20X)
Client Id: FA4-9
Data File: 6G127517.D
Analysis Date: 08/22/22 13:01
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**140**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**140**

Worksheet #: 680976

Total Target Concentration 140

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-002
Client Id: PGW-2
Data File: 6G127514.D
Analysis Date: 08/22/22 12:25
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.2**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.2**

Worksheet #: 680976

Total Target Concentration 4.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-003(5X)
Client Id: OU11-A
Data File: 6G127515.D
Analysis Date: 08/22/22 12:37
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**66**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**66**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-004(3X)
Client Id: OU11-B
Data File: 3G138874.D
Analysis Date: 08/16/22 20:30
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 3
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.75	U	**11097-69-1**	**(^)Aroclor-1254**	**0.75**	**28**
11104-28-2	Aroclor-1221	0.75	U	11096-82-5	Aroclor-1260	0.75	U
11141-16-5	Aroclor-1232	0.75	U	37324-23-5	Aroclor-1262	0.75	U
53469-21-9	Aroclor-1242	0.75	U	11100-14-4	Aroclor-1268	0.75	U
12672-29-6	Aroclor-1248	0.75	U	**1336-36-3**	**Aroclor (Total)**	**0.75**	**28**

Worksheet #: 680976

Total Target Concentration 28

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-005
Client Id: OU11-D
Data File: 3G138879.D
Analysis Date: 08/16/22 21:29
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.61**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.61**

Worksheet #: 680976

Total Target Concentration 0.61

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-006
Client Id: OU11-C
Data File: 3G138882.D
Analysis Date: 08/16/22 22:04
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-007
Client Id: OU11-E
Data File: 6G127512.D
Analysis Date: 08/22/22 12:02
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.36**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.36**

Worksheet #: 680976

Total Target Concentration 0.36

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-008
Client Id: OU11-F
Data File: 3G138876.D
Analysis Date: 08/16/22 20:54
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.8**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.8**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-009
Client Id: VE4-7
Data File: 6G127513.D
Analysis Date: 08/22/22 12:14
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.7**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.7**

Worksheet #: 680976

Total Target Concentration 3.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-010(5X)
Client Id: VE-9
Data File: 6G127516.D
Analysis Date: 08/22/22 12:49
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**17**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**17**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-011(20X)
Client Id: FA4-16
Data File: 6G127565.D
Analysis Date: 08/23/22 16:28
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**67**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**67**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 6G127452.D
Analysis Date: 08/18/22 15:34
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**6.5**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**6.5**

Worksheet #: 680976

Total Target Concentration 6.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102697
Client Id:
Data File: 3G138865.D
Analysis Date: 08/16/22 18:45
Date Rec/Extracted: NA-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.050	U	11097-69-1	Aroclor-1254	0.050	U
11104-28-2	Aroclor-1221	0.050	U	11096-82-5	Aroclor-1260	0.050	U
11141-16-5	Aroclor-1232	0.050	U	37324-23-5	Aroclor-1262	0.050	U
53469-21-9	Aroclor-1242	0.050	U	11100-14-4	Aroclor-1268	0.050	U
12672-29-6	Aroclor-1248	0.050	U				

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32707-012	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/12/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-50-8	Copper	10	16	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7439-92-1	Lead	3.0	8.5	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

QC102696 Pest

QC102697 PCB

Hampton-Clarke

Shaker Extraction: Pest (3510C) / PCB (3510C) / Other(_____):

Pest Batch No.: 102696
Start Ext Date/Time: 08/16/22 8:15 AM
End Ext. Date/Time: 08/16/22 3:26 PM
Recirculator: Start temp: 15:0 / 15:0
End temp: 14:8 / 15:0

PCB Batch No.: 102697
Shaker Used: 2, 3, 4
Condenser Used: 4 2 5
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments LV	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102696/97	x	x	1000ml	1 ml	10ul surr	AD32665 -001	EFV377745 08/11/22
MBS 102696/97	x	x	↓	5ml			
MS 32602-002		x	500 ml	↓			
MSD 32602-002		x	↓	↓			
MS 32665-001	x		100 ml	↓			
MSD 32665-001	x		↓	↓			
AD 32665-001	1		↓	↓		1	NO EF
AD 32621-001	2		↓	↓		2	1
EFV 377745 08/11/22	x		↓	↓		x	
AD 32627-003	3		950 ml	↓			
AD 32639-001	4	1	1000ml	1 ml	10ul surr		
AD 32664-001	5	2	↓	5ml			
AD 32665-001		3	100 ml	↓			
AD 32602-002		4	500 ml	2.5ml	½ surr		
AD 32622-001		5	1000 ml	5ml			
AD 32623-001		6	↓	↓			
-002		7	↓	↓			
AD 32707-001		8	↓	↓			
-002		9	↓	↓			
-003		10	↓	↓	Rack # 19		
-004		11	↓	↓			
-005		12	950 ml	↓			
-006		13	↓	↓			
-007		14	↓	↓			
-008		15	1000ml	↓			
-009		16	↓	↓			
-010		17	↓	↓			
Copper Cleanup:							
Sulfuric Acid Cleanup:	N/A	✓					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14726 baked Na_2SO_4: 372186 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: LV Date: 08/16/22

Received By: AR Date: 8/17/22

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2022.doc

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32715
May 12, 2023
Reissued; June 13, 2023
Sampling date: 8/11/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32715 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(6/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A), Inorganics (6020B) and Perfluorinated Hydrocarbons (537 modified).

DUSR ID	Sample ID	Laboratory ID	Laboratory #2 ID
1	VE2-1	AD32715-01	JD50085-1
2	VE1-4	AD32715-02	JD50085-2
3	VE4-11	AD32715-03	JD50085-3
4	VE1-2	AD32715-04	
5	DUPLICATE 08-11-22	AD32715-05	
6	EB 081122 1446	AD32715-06	JD50085-4
7	EB 081122 1505	AD32715-07	JD50085-5
8	EB 081122 1515 MS	AD32715-08	JD50085-5S
9	Trip Blank	AD32715-09	
10	EB 081122 1515 MSD	AD32715-10	JD50085-5D

The analysis of the Perfluorinated Hydrocarbons was subcontracted to SGS (Laboratory #2)

All target analytes in all of the analyses, except method 537 modified, were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation

-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. This sample was analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
#1M163698.D	m&p-Xylene	22.06	UJ/J	MB/MBS104010, 1-5

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met except the raw data for the initial calibration and continuing calibration off instrument GCMS_12Sm was not included in the original package. Those pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7. The %D was within limits, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#4. There were no associated target analytes detected in this sample, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the extraction log was illegible in the original package. An updated page is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of a surrogate was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified.

Surrogate	Column	Qualifier	Associated Sample
DCBP	1, 2	UJ/J	4, 5

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Holding Times, Serial Dilution and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met Form 3 and the serial dilution was not included in the original package. Those pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. Target analytes in this sample should be qualified as estimated.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except As was detected in DUSR ID#5 but was not detected in #4.

SERIAL DILUTION
All criteria were met except a target analyte was outside QC limits and should be qualified as estimated in the associated samples.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
#1SD	Cr	61	UJ	1

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

Samples: DUSR ID#1-3 were diluted due to matrix interference.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
13C5-PFHxA	UJ/J	3
d5-NEtFOSAA	UJ/J	2RE
13C2-PFTeDA	UJ/J	1, 1RE, 3, 3RE
13C3-PFBS	UJ/J	3
13C4-PFHpA	UJ/J	3
13C8-FOSA	UJ/J	1-3, 1RE-3RE

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except a target analyte was outside QC limits in the matrix spike and matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec 5MS	%Rec 5MSD	%RPD	Qualifier	Associated Sample
PFTA	-	-	44	UJ	5

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on most of the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: MNR-Harmon Yard

HC Project: 2081222

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
VE 2-1	AD32715-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-4	AD32715-002	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 4-11	AD32715-003	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-2	AD32715-004	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
DUPLICATE 08-11-22	AD32715-005	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
EB 081122 1446	AD32715-006	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
EB 081122 1505	AD32715-007	Aqueous	PFAs (EPA 537 mod)*
EB 081122 1515 MS	AD32715-008	Aqueous	PFAs (EPA 537 mod)*
Trip Blank	AD32715-009	Aqueous	No Analysis
EB 081122 1515 MSD	AD32715-010	Aqueous	PFAs (EPA 537 mod)*

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 104004, 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 104004. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32715-004, -005 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD32715-001, -002, -003, -006, -007, -008, -010 were submitted to SGS for PFAs analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	9/30/22 Date

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 1M163723.D
Analysis Date: 08/19/22 02:09
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	**108-88-3**	**Toluene**	**1.0**	**8.3**
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 8.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 1M163724.D
Analysis Date: 08/19/22 02:29
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 1M163725.D
Analysis Date: 08/19/22 02:50
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 1M163726.D
Analysis Date: 08/19/22 03:11
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 1M163727.D
Analysis Date: 08/19/22 03:32
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 2M172480.D
Analysis Date: 08/18/22 05:42
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M163698.D **Instrument:** GCMS 1

Cont Calibration Date/Time 8/18/2022 5:31:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.80	15.93	20	20		0.112	0.108	20.36	
cis-1,3-Dichloropropene	1	0		5.90	18.18	20	20	0.2	0.377	0.343	9.08	
trans-1,3-Dichloropropene	1	0		6.20	18.28	20	20	0.1	0.348	0.318	8.61	
Ethyl methacrylate	1	0		6.22	16.50	20	20	0.5	0.170	0.140	17.49	
1,1,2-Trichloroethane	1	0		6.31	21.17	20	20	0.1	0.230	0.243	5.83	
1,2-Dibromoethane	1	0		6.62	21.33	20	20	0.1	0.242	0.258	6.65	
1,3-Dichloropropane	1	0		6.41	20.73	20	20		0.372	0.385	3.64	
4-Methyl-2-Pentanone	1	0		5.97	21.74	20	20	0.1	0.161	0.175	8.72	
2-Hexanone	1	0		6.43	21.70	20	20	0.1	0.109	0.118	8.49	
Tetrachloroethene	1	0		6.41	19.46	20	20	0.2	0.257	0.250	2.72	
Toluene-d8	1	0	S	6.06	28.87	30	**		1.181	1.137	3.78	
Toluene	1	0		6.09	21.02	20	20	0.4	0.602	0.632	5.09	
1,1,1,2-Tetrachloroethane	1	0		6.92	20.25	20	20		0.273	0.276	1.25	
Chlorobenzene	1	0		6.89	20.50	20	20	0.5	0.714	0.732	2.51	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.14	15.35	20	20	0.5	0.549	0.541	23.23	C1
n-Amyl acetate	1	0		7.27	20.24	20	20	0.5	0.454	0.460	1.21	
Bromoform	1	0		7.35	24.08	20	20	0.1	0.322	0.388	20.42	
Ethylbenzene	1	0		6.93	21.77	20	20	0.1	0.510	0.556	8.83	
1,1,2,2-Tetrachloroethane	1	0		7.57	25.96	20	20	0.1	0.426	0.552	29.82	C1
Bromofluorobenzene	1	0	S	7.52	32.14	30	**		0.795	0.852	7.15	
Styrene	1	0		7.22	24.07	20	20	0.3	1.099	1.323	20.33	
m&p-Xylenes	1	0		6.99	48.82	40	20	0.1	0.656	0.801	22.06	C1
o-Xylene	1	0		7.22	23.51	20	20	0.3	0.670	0.787	17.56	
trans-1,4-Dichloro-2-butene	1	0		7.60	19.20	20	20		0.155	0.149	3.98	
1,3-Dichlorobenzene	1	0		8.14	22.46	20	20	0.6	0.858	0.963	12.28	
1,4-Dichlorobenzene	1	0		8.19	23.05	20	20	0.5	0.888	1.023	15.25	
1,2-Dichlorobenzene	1	0		8.42	22.70	20	20	0.4	0.807	0.916	13.52	
Isopropylbenzene	1	0		7.42	23.76	20	20	0.1	1.493	1.773	18.80	
Cyclohexanone	1	0		7.49	119.13	100	20		0.012	0.014	19.13	
Camphene	1	0		7.59	18.91	20	20		0.415	0.393	5.43	
1,2,3-Trichloropropane	1	0		7.61	23.99	20	20		0.525	0.630	19.95	
2-Chlorotoluene	1	0		7.72	24.08	20	20		0.970	1.168	20.40	
p-Ethyltoluene	1	0		7.71	21.66	20	20		1.549	1.677	8.30	
4-Chlorotoluene	1	0		7.77	23.80	20	20		0.933	1.110	19.00	
n-Propylbenzene	1	0		7.64	23.58	20	20		1.653	1.948	17.90	
Bromobenzene	1	0		7.62	23.17	20	20		0.945	1.095	15.86	
1,3,5-Trimethylbenzene	1	0		7.73	23.77	20	20		1.143	1.359	18.86	
Butyl methacrylate	1	0		7.74	19.05	20	20	0.5	0.343	0.327	4.76	
t-Butylbenzene	1	0		7.93	22.21	20	20		1.173	1.303	11.07	
1,2,4-Trimethylbenzene	1	0		7.96	22.88	20	20		1.194	1.366	14.39	
sec-Butylbenzene	1	0		8.06	21.76	20	20		1.340	1.458	8.80	
4-Isopropyltoluene	1	0		8.13	20.81	20	20		1.183	1.231	4.03	
n-Butylbenzene	1	0		8.37	20.16	20	20		1.209	1.219	0.81	
p-Diethylbenzene	1	0		8.35	18.47	20	20		0.725	0.670	7.67	
1,2,4,5-Tetramethylbenzene	1	0		8.81	16.10	20	20		0.938	0.905	19.51	
1,2-Dibromo-3-Chloropropane	1	0		8.86	26.11	20	20	0.05	0.102	0.133	30.57	C1
Camphor	1	0		9.30	173.64	200	20		0.034	0.041	13.18	
Hexachlorobutadiene	1	0		9.45	20.17	20	20		0.215	0.216	0.84	
1,2,4-Trichlorobenzene	1	0		9.36	22.47	20	20	0.2	0.432	0.485	12.34	
1,2,3-Trichlorobenzene	1	0		9.66	23.58	20	20		0.362	0.426	17.88	
Naphthalene	1	0		9.52	17.20	20	20		0.956	1.208	13.98	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M163702.D
Analysis Date: 08/18/22 18:54
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M114930.D	WMB102735	A	08/19/22 10:00	1		NA	NA	106	96	NA	118
9M114936.D	AD32715-001	A	08/19/22 12:18	1		NA	NA	105	102	NA	120
9M114937.D	AD32715-002	A	08/19/22 12:41	1		NA	NA	106	106	NA	112
9M114938.D	AD32715-003	A	08/19/22 13:04	1		NA	NA	109	107	NA	121
9M114939.D	AD32715-004	A	08/19/22 13:28	1		NA	NA	130	127	NA	130
9M114940.D	AD32715-005	A	08/19/22 13:51	1		NA	NA	121	124	NA	128
9M114935.D	AD32715-006	A	08/19/22 11:55	1		NA	NA	114	108	NA	127
9M114929.D	WMB102735(MS)	A	08/19/22 09:37	1		NA	NA	102	89	NA	126
9M114932.D	AD32618-001(T)	A	08/19/22 10:46	1		NA	NA	112	103	NA	120
9M114933.D	AD32618-001(T)(MS)	A	08/19/22 11:09	1		NA	NA	107	95	NA	122
9M114934.D	AD32618-001(T)(MSD)	A	08/19/22 11:32	1		NA	NA	107	90	NA	122

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 9M114936.D
Analysis Date: 08/19/22 12:18
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 12M63601.D
Analysis Date: 08/19/22 12:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 9M114937.D
Analysis Date: 08/19/22 12:41
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 12M63602.D
Analysis Date: 08/19/22 12:50
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 9M114938.D
Analysis Date: 08/19/22 13:04
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 12M63603.D
Analysis Date: 08/19/22 13:11
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 9M114939.D
Analysis Date: 08/19/22 13:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**5.5**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**12**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 12M63604.D
Analysis Date: 08/19/22 13:33
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 9M114940.D
Analysis Date: 08/19/22 13:51
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**4.3**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**10**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 12M63605.D
Analysis Date: 08/19/22 13:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 9M114935.D
Analysis Date: 08/19/22 11:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 12M63600.D
Analysis Date: 08/19/22 12:06
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G127443.D	WMB102719	A	08/18/22 13:49	1		87	84	98	97		
6G127457.D	AD32715-001	A	08/18/22 16:33	1		81	83	93	92		
6G127455.D	AD32715-002	A	08/18/22 16:09	1		97	95	108	104		
6G127456.D	AD32715-003	A	08/18/22 16:21	1		95	95	96	94		
6G127454.D	AD32715-004	A	08/18/22 15:58	1		115	116	206 *	198 *		
6G127453.D	AD32715-005	A	08/18/22 15:46	1		109	110	191 *	189 *		
6G127458.D	AD32715-006	A	08/18/22 16:45	1		81	76	90	90		
6G127442.D	WMB102719(MS)	A	08/18/22 13:37	1		86	79	103	108		
6G127565.D	AD32707-011(20X)	A	08/23/22 16:28	20		43	45	53	55		
6G127949.D	AD32707-011(20X)(MS)	A	09/08/22 08:25	20		89	101	123	111		
6G127950.D	AD32707-011(20X)(MS	A	09/08/22 08:36	20		98	95	117	118		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 6G127457.D
Analysis Date: 08/18/22 16:33
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 6G127455.D
Analysis Date: 08/18/22 16:09
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 6G127456.D
Analysis Date: 08/18/22 16:21
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.0**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 6G127454.D
Analysis Date: 08/18/22 15:58
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 6G127453.D
Analysis Date: 08/18/22 15:46
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 6G127458.D
Analysis Date: 08/18/22 16:45
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102719
Client Id:
Data File: 6G127443.D
Analysis Date: 08/18/22 13:49
Date Rec/Extracted: NA-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/14/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	34	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	14	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	2.4	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-50-8	Copper	10	29	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7439-92-1	Lead	3.0	21	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUPLICATE 08-11-22	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.3	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	7.5	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-50-8	Copper	10	160	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7439-92-1	Lead	3.0	51	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	EB 081122 1446	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Hampton Clarke-Veritech	**Job No:**	JD50085
Site:	Project# 2081222	**Report Date**	8/31/2022 6:35:03 PM

On 08/16/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD50085 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** F:OP92717

- The data for EPA 537M BY ID meets quality control requirements.
- JD50085-1: Analysis performed at SGS Orlando, FL.
- JD50085-1: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-2: Analysis performed at SGS Orlando, FL.
- JD50085-2: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-3: Analysis performed at SGS Orlando, FL.
- JD50085-3: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-4: Analysis performed at SGS Orlando, FL.
- JD50085-5: Analysis performed at SGS Orlando, FL.
- JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
- JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD50085

Site: HCVNJF: Project# 2081222 **Report Date:** 8/31/2022 6:23:57 PM

On 08/18/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD50085 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP92717

Sample(s) JD50085-5MS, JD50085-5MSD were used as the QC samples indicated.

RPD(s) for MSD for Perfluorotetradecanoic acid are outside control limits for sample OP92717-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) JD50085-1, JD50085-2, JD50085-3 have surrogates outside control limits.

JD50085-1: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

JD50085-1 for 13C5-PFPeA: Outside control limits.

JD50085-1 for 13C8-FOSA: Outside control limits.

JD50085-2 for 13C8-FOSA: Outside control limits.

JD50085-2: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3 for 13C3-PFBS: Outside control limits.

JD50085-3 for 13C4-PFBA: Outside control limits.

JD50085-3 for 13C4-PFHpA: Outside control limits.

JD50085-3 for 13C5-PFHxA: Outside control limits.

JD50085-3 for 13C5-PFPeA: Outside control limits.

JD50085-3 for 13C8-FOSA: Outside control limits.

JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4045.D	1	08/30/22 07:48	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4112.D	5	08/31/22 03:01	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0044	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	0.0048	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0046	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0073	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0028	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0154	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0605	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	56%	73%	35-135%
	13C5-PFPeA	48% e	74%	50-150%
	13C5-PFHxA	71%	96%	50-150%
	13C4-PFHpA	72%	95%	50-150%
	13C8-PFOA	66%	94%	50-150%
	13C9-PFNA	59%	95%	50-150%
	13C6-PFDA	75%	100%	50-150%
	13C7-PFUnDA	74%	95%	40-140%
	13C2-PFDoDA	72%	86%	40-140%
	13C2-PFTeDA	40%	32%	30-130%
	13C3-PFBS	58%	77%	50-150%
	13C3-PFHxS	81%	98%	50-150%
	13C8-PFOS	74%	93%	50-150%
	13C8-FOSA	12% e	23% e	30-130%
	d3-MeFOSAA	61%	120%	40-140%
	d5-EtFOSAA	75%	123%	40-140%
	13C2-6:2FTS	73%	104%	50-150%
	13C2-8:2FTS	85%	113%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4046.D	1	08/30/22 08:03	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4113.D	5	08/31/22 03:16	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0041	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0198	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	0.0097	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0082	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0123	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	0.0019	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0555	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	70%	96%	35-135%
	13C5-PFPeA	68%	95%	50-150%
	13C5-PFHxA	91%	110%	50-150%
	13C4-PFHpA	91%	111%	50-150%
	13C8-PFOA	89%	109%	50-150%
	13C9-PFNA	85%	106%	50-150%
	13C6-PFDA	79%	103%	50-150%
	13C7-PFUnDA	81%	92%	40-140%
	13C2-PFDoDA	79%	93%	40-140%
	13C2-PFTeDA	73%	73%	30-130%
	13C3-PFBS	76%	98%	50-150%
	13C3-PFHxS	93%	114%	50-150%
	13C8-PFOS	82%	99%	50-150%
	13C8-FOSA	29% d	45%	30-130%
	d3-MeFOSAA	94%	149% d	40-140%
	d5-EtFOSAA	112%	160% d	40-140%
	13C2-6:2FTS	95%	120%	50-150%
	13C2-8:2FTS	94%	125%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4049.D	1	08/30/22 08:49	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4114.D	5	08/31/22 03:32	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND [c]	0.018	0.0089	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	ND [c]	0.0089	0.0045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND [c]	0.0089	0.0045	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	0.0089	0.0045	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0094	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0066	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	34% e	66%	35-135%
	13C5-PFPeA	33% e	55%	50-150%
	13C5-PFHxA	45% e	78%	50-150%
	13C4-PFHpA	49% e	84%	50-150%
	13C8-PFOA	55%	85%	50-150%
	13C9-PFNA	62%	90%	50-150%
	13C6-PFDA	71%	89%	50-150%
	13C7-PFUnDA	71%	82%	40-140%
	13C2-PFDoDA	68%	75%	40-140%
	13C2-PFTeDA	47%	39%	30-130%
	13C3-PFBS	41% e	64%	50-150%
	13C3-PFHxS	67%	87%	50-150%
	13C8-PFOS	69%	89%	50-150%
	13C8-FOSA	11% e	19% e	30-130%
	d3-MeFOSAA	59%	109%	40-140%
	d5-EtFOSAA	77%	111%	40-140%
	13C2-6:2FTS	64%	91%	50-150%
	13C2-8:2FTS	81%	104%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4050.D	1	08/30/22 09:04	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	111%		35-135%
	13C5-PFPeA	116%		50-150%
	13C5-PFHxA	116%		50-150%
	13C4-PFHpA	117%		50-150%
	13C8-PFOA	119%		50-150%
	13C9-PFNA	117%		50-150%
	13C6-PFDA	111%		50-150%
	13C7-PFUnDA	107%		40-140%
	13C2-PFDoDA	98%		40-140%
	13C2-PFTeDA	91%		30-130%
	13C3-PFBS	115%		50-150%
	13C3-PFHxS	114%		50-150%
	13C8-PFOS	109%		50-150%
	13C8-FOSA	108%		30-130%
	d3-MeFOSAA	105%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	112%		50-150%
	13C2-8:2FTS	104%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4051.D	1	08/30/22 09:20	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	116%		35-135%
	13C5-PFPeA	121%		50-150%
	13C5-PFHxA	120%		50-150%
	13C4-PFHpA	119%		50-150%
	13C8-PFOA	122%		50-150%
	13C9-PFNA	120%		50-150%
	13C6-PFDA	115%		50-150%
	13C7-PFUnDA	110%		40-140%
	13C2-PFDoDA	104%		40-140%
	13C2-PFTeDA	97%		30-130%
	13C3-PFBS	119%		50-150%
	13C3-PFHxS	118%		50-150%
	13C8-PFOS	113%		50-150%
	13C8-FOSA	109%		30-130%
	d3-MeFOSAA	107%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	114%		50-150%
	13C2-8:2FTS	108%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	35-135%
	13C5-PFPeA	106%	50-150%
	13C5-PFHxA	107%	50-150%
	13C4-PFHpA	109%	50-150%
	13C8-PFOA	108%	50-150%
	13C9-PFNA	108%	50-150%
	13C6-PFDA	108%	50-150%
	13C7-PFUnDA	105%	40-140%
	13C2-PFDoDA	100%	40-140%
	13C2-PFTeDA	81%	30-130%
	13C3-PFBS	106%	50-150%

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	106%	50-150%
	13C8-PFOS	107%	50-150%
	13C8-FOSA	90%	30-130%
	d3-MeFOSAA	100%	40-140%
	d5-EtFOSAA	92%	40-140%
	13C2-4:2FTS	99%	50-150%
	13C2-6:2FTS	102%	50-150%
	13C2-8:2FTS	102%	50-150%
	13C3-HFPO-DA	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	102%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	103%	50-150%
	13C9-PFNA	104%	50-150%
	13C6-PFDA	103%	50-150%
	13C7-PFUnDA	102%	50-150%
	13C2-PFDoDA	100%	50-150%
	13C2-PFTeDA	93%	50-150%
	13C3-PFBS	103%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	104%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	102%	50-150%
	d3-MeFOSAA	97%	50-150%
	d5-EtFOSAA	96%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	96%	50-150%
	13C2-8:2FTS	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q64-IBLK	5Q4062.D	1	08/30/22	AL	n/a	n/a	S5Q64

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	101%	50-150%
	13C9-PFNA	102%	50-150%
	13C6-PFDA	104%	50-150%
	13C7-PFUnDA	101%	50-150%
	13C2-PFDoDA	103%	50-150%
	13C2-PFTeDA	103%	50-150%
	13C3-PFBS	104%	50-150%
	13C3-PFHxS	103%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	93%	50-150%
	d3-MeFOSAA	93%	50-150%
	d5-EtFOSAA	92%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	94%	50-150%
	13C2-8:2FTS	97%	50-150%

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0661	83	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0669	84	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0676	85	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0755	94	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0667	83	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0680	85	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0681	85	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0681	85	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0675	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0610	76	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0699	87	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0675	84	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0671	84	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0672	84	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0660	83	70-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0580	73	60-130
754-91-6	PFOSA	0.08	0.0671	84	70-130
2355-31-9	MeFOSAA	0.08	0.0673	84	70-130
2991-50-6	EtFOSAA	0.08	0.0688	86	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0681	85	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0673	84	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	115%	35-135%
	13C5-PFPeA	119%	50-150%
	13C5-PFHxA	118%	50-150%
	13C4-PFHpA	120%	50-150%
	13C8-PFOA	119%	50-150%
	13C9-PFNA	120%	50-150%
	13C6-PFDA	119%	50-150%
	13C7-PFUnDA	116%	40-140%
	13C2-PFDoDA	116%	40-140%
	13C2-PFTeDA	99%	30-130%
	13C3-PFBS	117%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	BSP	Limits
	13C3-PFHxS	120%	50-150%
	13C8-PFOS	120%	50-150%
	13C8-FOSA	106%	30-130%
	d3-MeFOSAA	110%	40-140%
	d5-EtFOSAA	107%	40-140%
	13C2-4:2FTS	114%	50-150%
	13C2-6:2FTS	118%	50-150%
	13C2-8:2FTS	118%	50-150%
	13C3-HFPO-DA	108%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	JD50085-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	ND		0.0714	0.0626	88	0.0833	0.0772	93	21	70-130/30
2706-90-3	Perfluoropentanoic acid	ND		0.0714	0.0640	90	0.0833	0.0780	94	20	70-130/30
307-24-4	Perfluorohexanoic acid	ND		0.0714	0.0644	90	0.0833	0.0784	94	20	70-130/30
375-85-9	Perfluoroheptanoic acid	ND		0.0714	0.0733	103	0.0833	0.0892	107	20	70-130/30
335-67-1	Perfluorooctanoic acid	ND		0.0714	0.0638	89	0.0833	0.0781	94	20	70-130/30
375-95-1	Perfluorononanoic acid	ND		0.0714	0.0654	92	0.0833	0.0798	96	20	70-130/30
335-76-2	Perfluorodecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0793	95	19	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0714	0.0626	88	0.0833	0.0785	94	23	70-130/30
307-55-1	Perfluorododecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0809	97	21	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0714	0.0613	86	0.0833	0.0763	92	22	60-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0714	0.0585	82	0.0833	0.0917	110	44*	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0784	94	20	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.0714	0.0656	92	0.0833	0.0798	96	20	70-130/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0714	0.0679	95	0.0833	0.0840	101	21	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0799	96	22	70-130/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0714	0.0535	75	0.0833	0.0663	80	21	60-130/30
754-91-6	PFOSA	ND		0.0714	0.0632	88	0.0833	0.0791	95	22	70-130/30
2355-31-9	MeFOSAA	ND		0.0714	0.0663	93	0.0833	0.0805	97	19	70-130/30
2991-50-6	EtFOSAA	ND		0.0714	0.0692	97	0.0833	0.0826	99	18	70-130/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.0714	0.0657	92	0.0833	0.0795	95	19	70-130/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.0714	0.0666	93	0.0833	0.0792	95	17	70-130/30

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C4-PFBA	110%	106%	116%	35-135%
	13C5-PFPeA	115%	112%	121%	50-150%
	13C5-PFHxA	114%	112%	120%	50-150%
	13C4-PFHpA	115%	112%	119%	50-150%
	13C8-PFOA	116%	111%	122%	50-150%
	13C9-PFNA	113%	108%	120%	50-150%
	13C6-PFDA	108%	102%	115%	50-150%
	13C7-PFUnDA	103%	97%	110%	40-140%
	13C2-PFDoDA	95%	91%	104%	40-140%
	13C2-PFTeDA	101%	87%	97%	30-130%
	13C3-PFBS	114%	110%	119%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C3-PFHxS	112%	108%	118%	50-150%
	13C8-PFOS	107%	100%	113%	50-150%
	13C8-FOSA	101%	95%	109%	30-130%
	d3-MeFOSAA	99%	93%	107%	40-140%
	d5-EtFOSAA	92%	89%	98%	40-140%
	13C2-4:2FTS	111%	109%		50-150%
	13C2-6:2FTS	113%	110%	114%	50-150%
	13C2-8:2FTS	105%	101%	108%	50-150%
	13C3-HFPO-DA	113%	108%		50-150%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD50085-1	5Q4112.D	73	74	96	95	94	95	100	95
JD50085-1	5Q4045.D	56	48* [a]	71	72	66	59	75	74
JD50085-2	5Q4113.D	96	95	110	111	109	106	103	92
JD50085-2	5Q4046.D	70	68	91	91	89	85	79	81
JD50085-3	5Q4114.D	66	55	78	84	85	90	89	82
JD50085-3	5Q4049.D	34* [a]	33* [a]	45* [a]	49* [a]	55	62	71	71
JD50085-4	5Q4050.D	111	116	116	117	119	117	111	107
JD50085-5	5Q4051.D	116	121	120	119	122	120	115	110
OP92717-BS	5Q4037.D	115	119	118	120	119	120	119	116
OP92717-MB	5Q4038.D	104	106	107	109	108	108	108	105
OP92717-MS	5Q4052.D	110	115	114	115	116	113	108	103
OP92717-MSD	5Q4053.D	106	112	112	112	111	108	102	97

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	35-135%
S2 = 13C5-PFPeA	50-150%
S3 = 13C5-PFHxA	50-150%
S4 = 13C4-PFHpA	50-150%
S5 = 13C8-PFOA	50-150%
S6 = 13C9-PFNA	50-150%
S7 = 13C6-PFDA	50-150%
S8 = 13C7-PFUnDA	40-140%

(a) Outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD50085-1	5Q4112.D	86	32	77	98	93	23* [a]	120	123
JD50085-1	5Q4045.D	72	40	58	81	74	12* [a]	61	75
JD50085-2	5Q4113.D	93	73	98	114	99	45	149* [a]	160* [a]
JD50085-2	5Q4046.D	79	73	76	93	82	29* [a]	94	112
JD50085-3	5Q4114.D	75	39	64	87	89	19* [a]	109	111
JD50085-3	5Q4049.D	68	47	41* [a]	67	69	11* [a]	59	77
JD50085-4	5Q4050.D	98	91	115	114	109	108	105	98
JD50085-5	5Q4051.D	104	97	119	118	113	109	107	98
OP92717-BS	5Q4037.D	116	99	117	120	120	106	110	107
OP92717-MB	5Q4038.D	100	81	106	106	107	90	100	92
OP92717-MS	5Q4052.D	95	101	114	112	107	101	99	92
OP92717-MSD	5Q4053.D	91	87	110	108	100	95	93	89

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	40-140%
S10 = 13C2-PFTeDA	30-130%
S11 = 13C3-PFBS	50-150%
S12 = 13C3-PFHxS	50-150%
S13 = 13C8-PFOS	50-150%
S14 = 13C8-FOSA	30-130%
S15 = d3-MeFOSAA	40-140%
S16 = d5-EtFOSAA	40-140%

(a) Outside control limits.

2081222 0342

Form 6
Initial Calibration

Method: EPA8270E SIM

Instrument: GCMS_12Sm

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	12M63510.D	CAL SIM@5PPM	08/15/22 11:52	2	12M63511.D	CAL SIM@0.02PPM	08/15/22 12:14
3	12M63503.D	CAL SIM@0.1PPM	08/15/22 09:21	4	12M63504.D	CAL SIM@0.2PPM	08/15/22 09:43
5	12M63506.D	CAL SIM@0.5PPM	08/15/22 10:26	6	12M63507.D	CAL SIM@1PPM	08/15/22 10:48
7	12M63508.D	CAL SIM@10PPM	08/15/22 11:09	8	12M63512.D	CAL SIM@19.6PPM	08/15/22 12:37

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0064	----	1.2150	1.2030	1.0470	1.1278	0.9642	0.9220	----	1.07	2.58	0.999	1.00	11		5.00		0.10	0.20	0.50	1.00	10.00	19.60	
N-Nitrosodimethylamin	1	0	Avg	1.0355	----	----	0.9188	0.9080	0.9849	1.0126	0.8907	----	0.958	2.97	0.995	1.00	6.3	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
bis(2-Chloroethyl)ether	1	0	Avg	1.3978	1.7625	1.6996	1.6718	1.6413	1.6731	1.3006	1.0716	----	1.53	5.56	0.982	0.999	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Methylphenol	1	0	Avg	1.0456	0.8115	0.9255	0.8596	0.7962	0.9160	1.0641	0.9259	----	0.918	5.98	0.995	1.00	11		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachloroethane	1	0	Avg	0.4633	0.5291	0.4763	0.4687	0.4494	0.4705	0.4621	0.4161	----	0.467	6.20	0.997	1.00	6.7	0.30	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
3&4-Methylphenol	1	0	Avg	1.0948	0.8878	0.8721	0.8302	0.7850	0.9248	1.0666	0.9438	----	0.926	6.10	0.995	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Nitrobenzene-d5	1	0	Avg	0.2092	0.2063	0.2149	0.1995	0.1941	0.2172	0.1951	0.1697	----	0.201	6.22	0.994	1.00	7.6		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
2,4-Dimethylphenol	1	0	Avg	0.1905	0.1515	0.1658	0.1463	0.1409	0.1639	0.1933	0.1728	----	0.166	6.52	0.997	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Naphthalene	1	0	Avg	0.8323	1.1799	0.9714	0.9534	0.9171	0.9218	0.8551	0.6778	----	0.914	6.80	0.986	0.999	16	0.70 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobutadiene	1	0	Avg	0.1666	0.2172	0.1954	0.1900	0.1749	0.1806	0.1623	0.1473	----	0.179	6.90	0.997	1.00	12	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorocyclopenta	1	0	Avg	0.2996	----	----	0.3113	0.2750	0.2719	0.3290	0.2883	----	0.296	7.46	0.995	0.999	7.4		5.00			0.20	0.50	1.00	10.00	19.60	
2,4,5-Trichlorophenol	1	0	Avg	0.3476	0.2732	0.2336	0.2199	0.2287	0.2847	0.3149	0.2957	----	0.275	7.58	0.997	1.00	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Fluorobiphenyl	1	0	Qua	0.9480	1.4142	1.2992	1.3275	1.2973	1.2860	0.8647	0.6102	----	1.13	7.62	0.960	0.999	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Acenaphthylene	1	0	Avg	1.8300	1.8894	1.7461	1.6561	1.6885	1.8028	1.9695	1.4666	----	1.76	8.08	0.976	0.997	8.9	0.90	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Acenaphthene	1	0	Avg	1.1049	1.3372	1.2135	1.2612	1.2158	1.2388	1.1341	0.8515	----	1.17	8.23	0.977	0.998	13	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzofuran	1	0	Qua	1.5642	2.2836	1.9898	2.0661	1.9885	1.9410	1.5535	1.1793	----	1.82	8.39	0.978	0.999	20		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluorene	1	0	Avg	1.0822	1.0713	1.0818	0.9908	1.0580	1.1077	1.1300	0.8487	----	1.05	8.71	0.977	0.998	8.6	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
4,6-Dinitro-2-methylph	1	0	Qua	0.0469	----	----	0.0190	0.0176	0.0223	0.0572	0.0747	----	0.0396	8.74	0.969	0.999	60	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
1,2-Diphenylhydrazine	1	0	Qua	0.6398	0.4310	0.4407	0.4471	0.4781	0.5937	0.6364	0.5604	----	0.528	8.85	0.995	1.00	17		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobenzene	1	0	Avg	0.2286	0.2793	0.2474	0.2547	0.2483	0.2549	0.2230	0.1972	----	0.242	9.25	0.996	1.00	10	0.10	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pentachlorophenol	1	0	Qua	0.0877	----	----	0.0445	0.0397	0.0527	0.0980	0.1023	----	0.0709	9.45	0.999	1.00	40	0.05 a	5.00			0.20	0.50	1.00	10.00	19.60	
Phenanthrene	1	0	Avg	1.0183	1.1884	1.1015	1.0841	1.0638	1.1290	0.9976	0.8404	----	1.05	9.69	0.992	1.00	10	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Anthracene	1	0	Avg	0.9224	0.7558	0.7628	0.7649	0.7924	0.8867	0.8958	0.7885	----	0.821	9.74	0.995	1.00	8.3	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Carbazole	1	0	Avg	0.9161	0.6819	0.7461	0.7864	0.7828	0.9179	0.8736	0.7619	----	0.808	9.91	0.994	1.00	11	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluoranthene	1	0	Avg	1.0537	0.7510	0.8000	0.8518	0.8539	0.9739	1.0653	0.9311	----	0.910	11.01	0.995	1.00	13	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pyrene	1	0	Avg	2.1889	2.7901	2.3462	2.4332	2.2918	2.2965	2.2626	2.0226	----	2.33	11.28	0.997	0.999	9.5	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Terphenyl-d14	1	0	Qua	0.9570	1.3742	1.4282	1.5164	1.4435	1.3188	0.8927	0.7324	----	1.21	11.47	0.988	1.00	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Benzo[a]anthracene	1	0	Qua	1.3198	1.1062	0.8228	0.9524	0.8022	1.0192	1.4614	1.3496	----	1.10	12.70	0.998	0.999	23	0.80	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Chrysene	1	0	Avg	1.3783	1.8595	1.5592	1.5935	1.5710	1.5391	1.3840	1.2293	----	1.51	12.74	0.996	1.00	12	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[b]fluoranthene	1	0	Avg	1.8431	1.3816	1.5534	1.6297	1.4217	1.5396	1.8835	1.5747	----	1.60	13.92	0.992	0.996	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[k]fluoranthene	1	0	Avg	2.1143	1.6909	1.6250	1.8039	2.1026	2.4892	2.0215	1.6419	----	1.94	13.95	0.987	1.00	16	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[a]pyrene	1	0	LinF	1.7994	1.4734	1.0793	1.2438	1.2128	1.3871	1.9212	1.6479	----	1.47	14.27	0.994	0.999	20	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.8277	1.4141	1.2062	1.2881	1.2668	1.4118	1.9796	1.7450	----	1.52	15.61	0.994	0.994	19	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzo[a,h]anthracen	1	0	Qua	1.5358	1.1430	1.0208	1.0520	1.0842	1.2055	1.5607	1.3586	----	1.25	15.64	0.994	0.995	17	0.40	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[g,h,i]perylene	1	0	Avg	1.6547	1.6758	1.2666	1.4044	1.3650	1.4943	1.7190	1.4756	----	1.51	15.97	0.994	0.999	11	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.42
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52

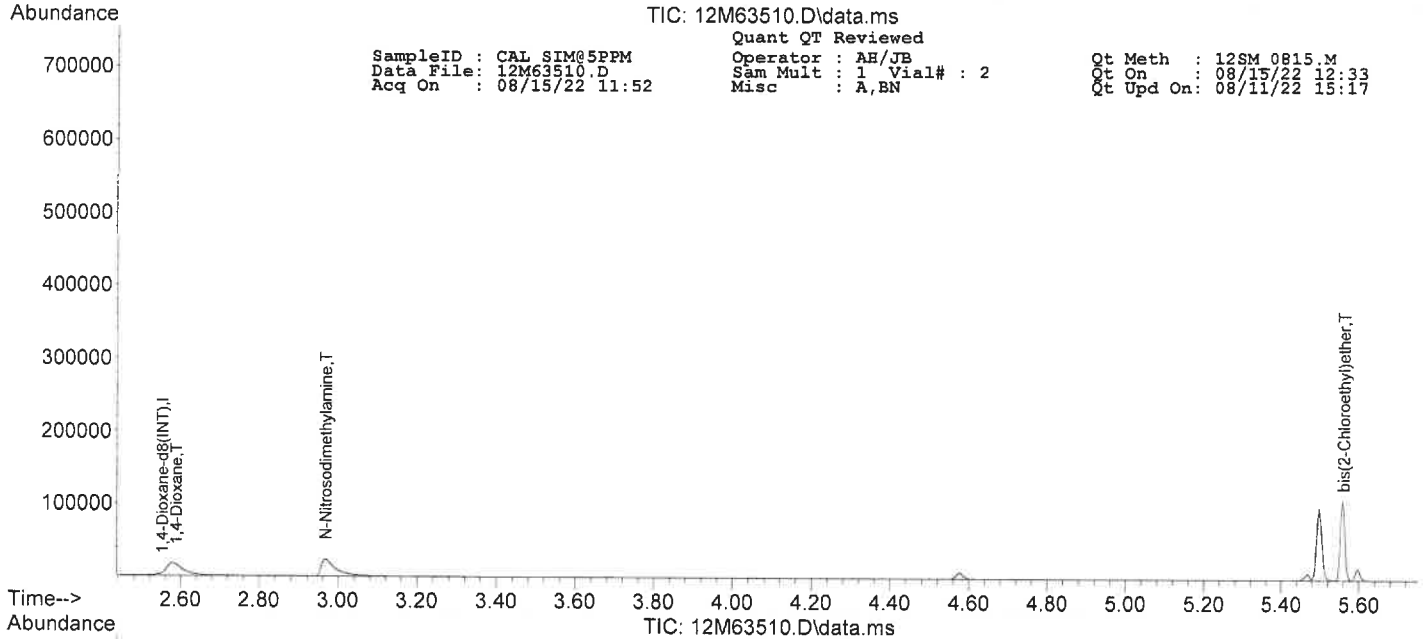
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.554	96	22615	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30910	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	140421	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62845	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	119371	0.40	ng	0.00
31) Chrysene-d12	12.705	240	62710m	0.40	ng	0.00
36) Perylene-d12	14.329	264	36908	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1835980	25.98	ng	0.00
Spiked Amount 50.000			Recovery = 51.96%			
17) 2-Fluorobiphenyl	7.620	172	3723688	20.66	ng	0.00
Spiked Amount 50.000			Recovery = 41.32%			
33) Terphenyl-d14	11.470	244	3750953	23.76	ng	0.00
Spiked Amount 50.000			Recovery = 47.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.584	88	284504	5.1623	ng	98
4) N-Nitrosodimethylamine	2.970	74	400102	5.2297	ng	81
5) bis(2-Chloroethyl)ether	5.562	93	540099	4.4968	ng	90
6) 2-Methylphenol	5.981	108	403996	5.3716	ng	85
7) Hexachloroethane	6.200	201	179005	5.0319	ng	38
8) 3&4-Methylphenol	6.095	108	423030m	5.9971	ng	
11) 2,4-Dimethylphenol	6.519	107	334436	4.8822	ng	80
12) Naphthalene	6.799	128	1460930	4.3749	ng	98
13) Hexachlorobutadiene	6.902	225	292504	3.9401	ng	51
15) Hexachlorocyclopentadiene	7.463	237	235377	5.5450	ng	99
16) 2,4,5-Trichlorophenol	7.576	196	273127m	5.3304	ng	
18) Acenaphthylene	8.083	152	1437630	4.9821	ng	98
19) Acenaphthene	8.233	153	868036	4.6589	ng	76
20) Dibenzofuran	8.393	168	1228851	4.3098	ng	99
21) Fluorene	8.711	166	850165	5.0041	ng	98
23) 4,6-Dinitro-2-methylph...	8.744	198	70008	8.5006	ng	86
24) 1,2-Diphenylhydrazine	8.850	77	954787	5.8913	ng	81
25) Hexachlorobenzene	9.254	284	341118	4.9652	ng	80
26) Pentachlorophenol	9.448	266	130973	5.8668	ng	88
27) Phenanthrene	9.686	178	1519442	4.9142	ng	99
28) Anthracene	9.738	178	1376349	5.6195	ng	98
29) Carbazole	9.910	167	1367056	5.3810	ng	97
30) Fluoranthene	11.013	202	1572285	5.6857	ng	98
32) Pyrene	11.277	202	1715868	4.6028	ng	83
34) Benzo[a]anthracene	12.697	228	1034589	5.5136	ng	97
35) Chrysene	12.739	228	1080458	4.5812	ng	96
37) Benzo[b]fluoranthene	13.918	252	850329	5.2127	ng	91
38) Benzo[k]fluoranthene	13.946	252	975447m	5.4437	ng	
39) Benzo[a]pyrene	14.266	252	830181	5.0426	ng	93
40) Indeno[1,2,3-cd]pyrene	15.611	276	843233	5.3532	ng	98
41) Dibenzo[a,h]anthracene	15.634	278	708546m	5.4169	ng	
42) Benzo[g,h,i]perylene	15.971	276	763398	5.0714	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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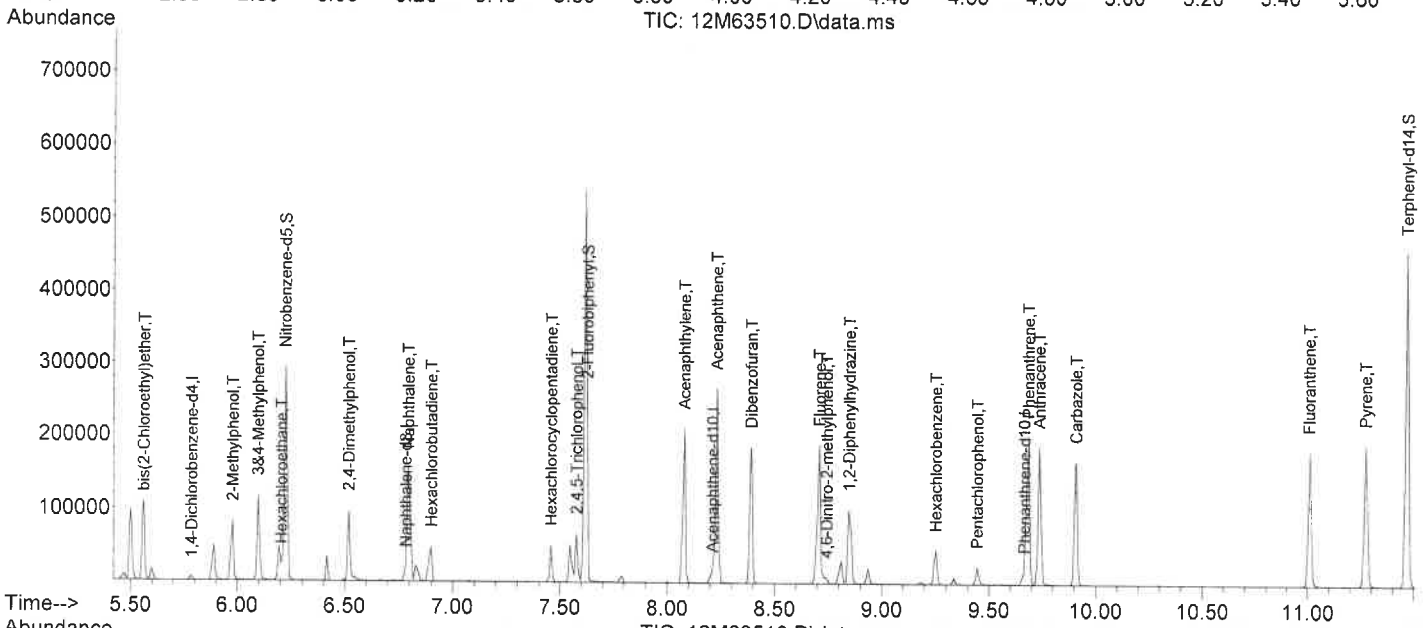
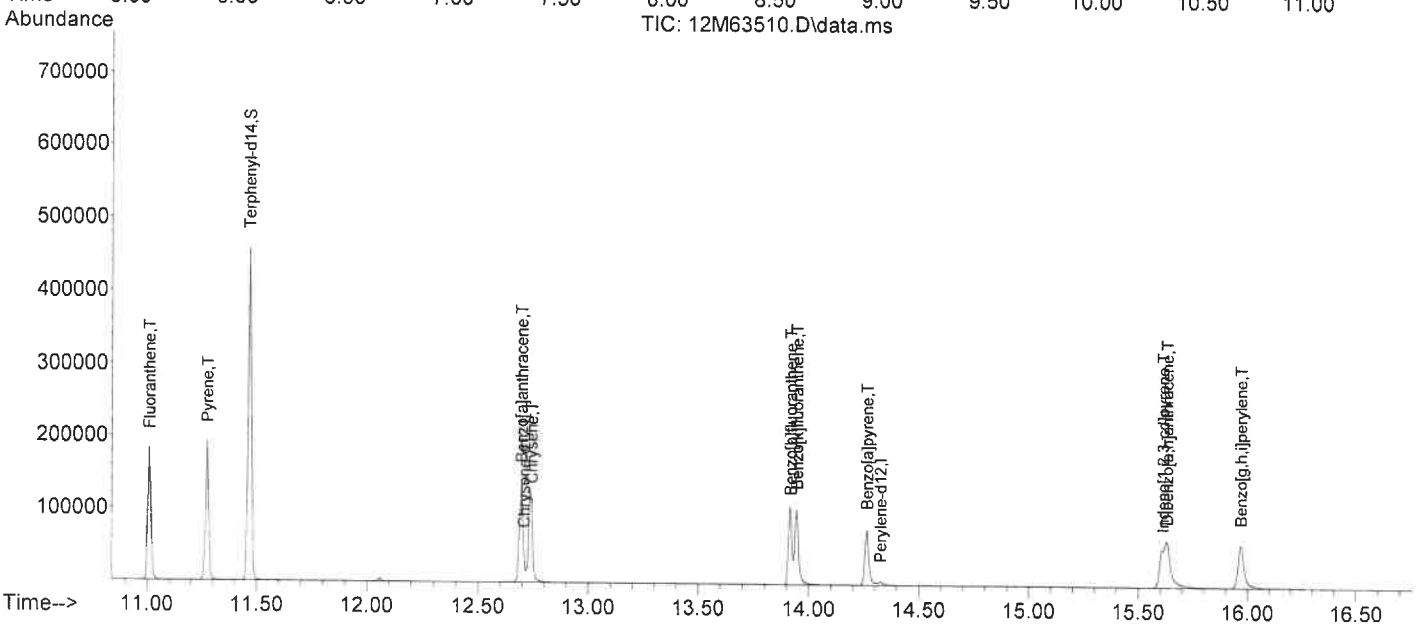
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52
Operator : AE/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63510.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63510.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]anthracene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

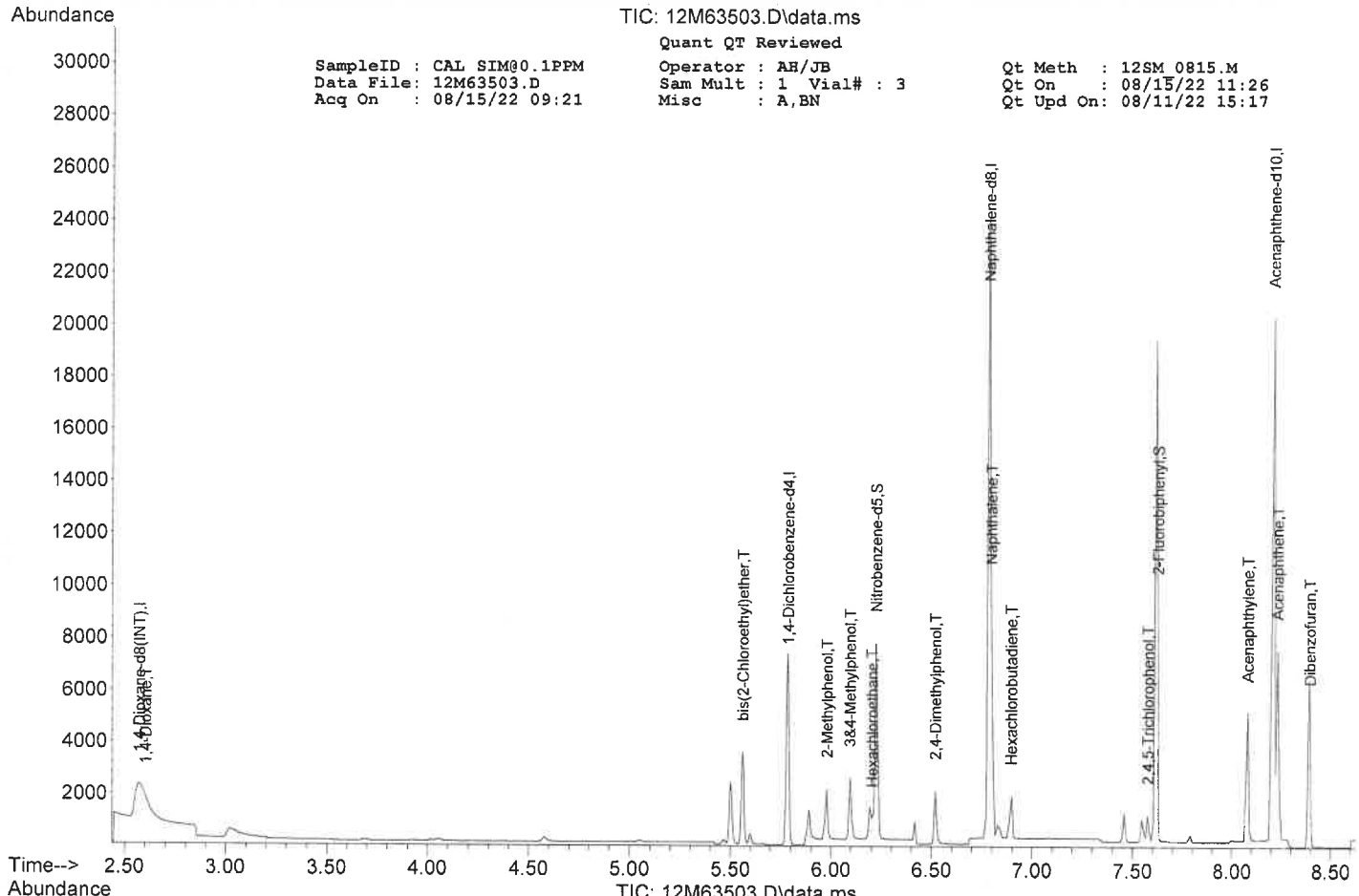
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.1PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63503.D Sam Mult : 1 Vial# : 3 Qt On : 08/15/22 11:26
Acq On : 08/15/22 09:21 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\Data\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.571	96	28527	0.40	ng	0.03
3) 1,4-Dichlorobenzene-d4	5.786	152	43663	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	187783	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	78733	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	151854	0.40	ng	0.00
31) Chrysene-d12	12.714	240	56551m	0.40	ng	0.00
36) Perylene-d12	14.326	264	33338m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	50457	0.53	ng	0.00
Spiked Amount 50.000			Recovery =	1.06%		
17) 2-Fluorobiphenyl	7.620	172	127865	0.57	ng	0.00
Spiked Amount 50.000			Recovery =	1.14%		
33) Terphenyl-d14	11.470	244	100959	0.66	ng	0.00
Spiked Amount 50.000			Recovery =	1.32%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.602	88	8665m	0.1246	ng	
5) bis(2-Chloroethyl)ether	5.563	93	18553	0.1094	ng	98
6) 2-Methylphenol	5.981	108	10103	0.0951	ng	92
7) Hexachloroethane	6.202	201	5200	0.1035	ng	45
8) 3&4-Methylphenol	6.095	108	9520m	0.0955	ng	
11) 2,4-Dimethylphenol	6.518	107	7786m	0.0850	ng	
12) Naphthalene	6.799	128	45607	0.1021	ng	97
13) Hexachlorobutadiene	6.902	225	9176	0.0924	ng	53
16) 2,4,5-Trichlorophenol	7.579	196	4599	0.0716	ng	98
18) Acenaphthylene	8.083	152	34370	0.0951	ng	95
19) Acenaphthene	8.233	153	23887	0.1023	ng	68
20) Dibenzofuran	8.394	168	39167	0.1096	ng	88
21) Fluorene	8.711	166	21295	0.1000	ng	95
24) 1,2-Diphenylhydrazine	8.850	77	16733	0.0812	ng	84
25) Hexachlorobenzene	9.255	284	9393	0.1075	ng	70
27) Phenanthrene	9.686	178	41818	0.1063	ng	96
28) Anthracene	9.735	178	28959m	0.0929	ng	
29) Carbazole	9.910	167	28327	0.0876	ng	92
30) Fluoranthene	11.013	202	30372	0.0863	ng	97
32) Pyrene	11.277	202	33171	0.0987	ng	81
34) Benzo[a]anthracene	12.695	228	11633m	0.0687	ng	
35) Chrysene	12.732	228	22045m	0.1037	ng	
37) Benzo[b]fluoranthene	13.913	252	12947m	0.0879	ng	
38) Benzo[k]fluoranthene	13.940	252	13544m	0.0837	ng	
39) Benzo[a]pyrene	14.257	252	8995m	0.0605	ng	
40) Indeno[1,2,3-cd]pyrene	15.600	276	10053m	0.0707	ng	
41) Dibenzo[a,h]anthracene	15.627	278	8508m	0.0720	ng	
42) Benzo[g,h,i]perylene	15.964	276	10557m	0.0776	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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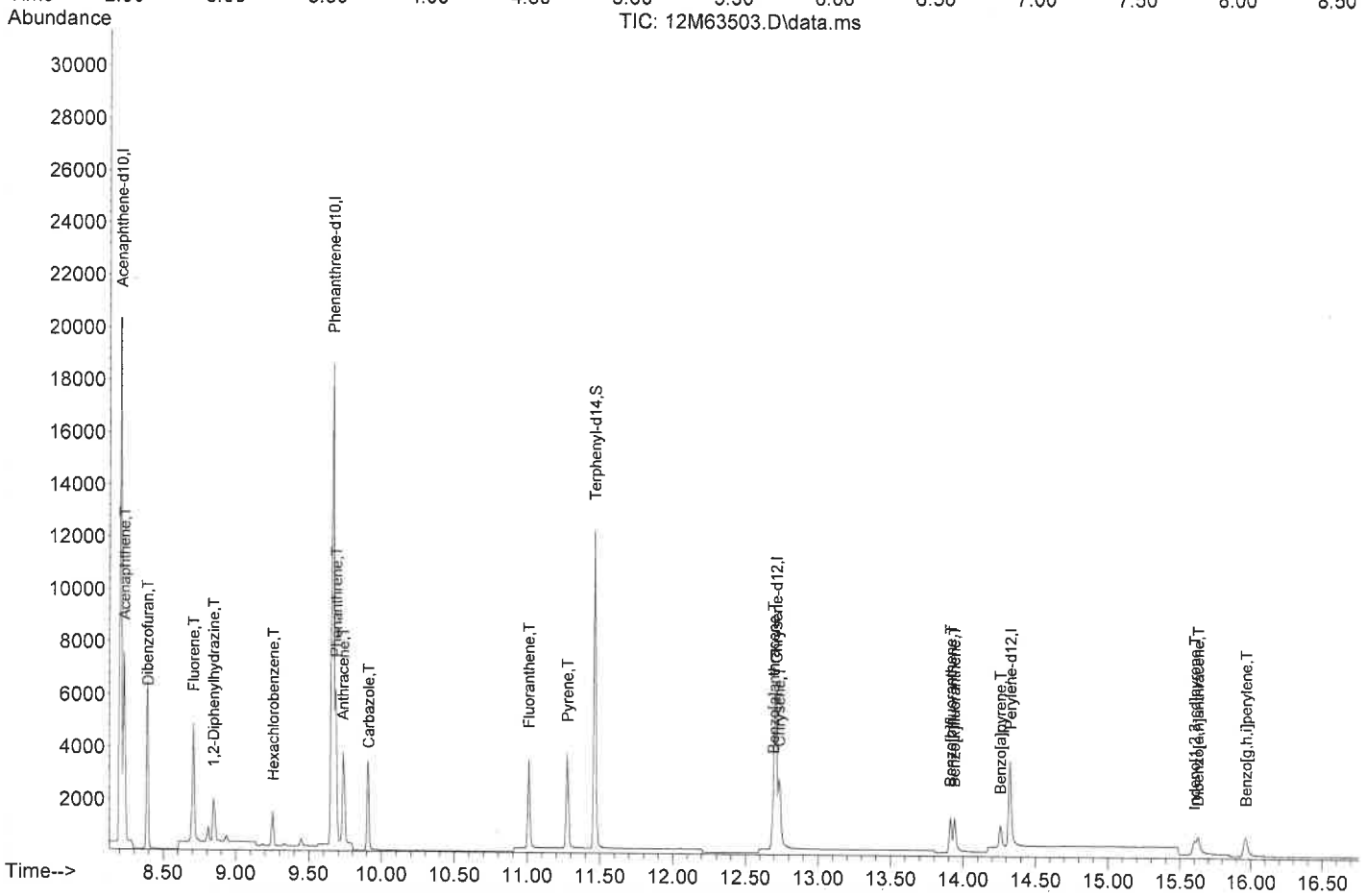
Quant QT Reviewed
SampleID : CAL SIM@0.1PPM
Data File: 12M63503.D
Acq On : 08/15/22 09:21
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:26
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63503.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

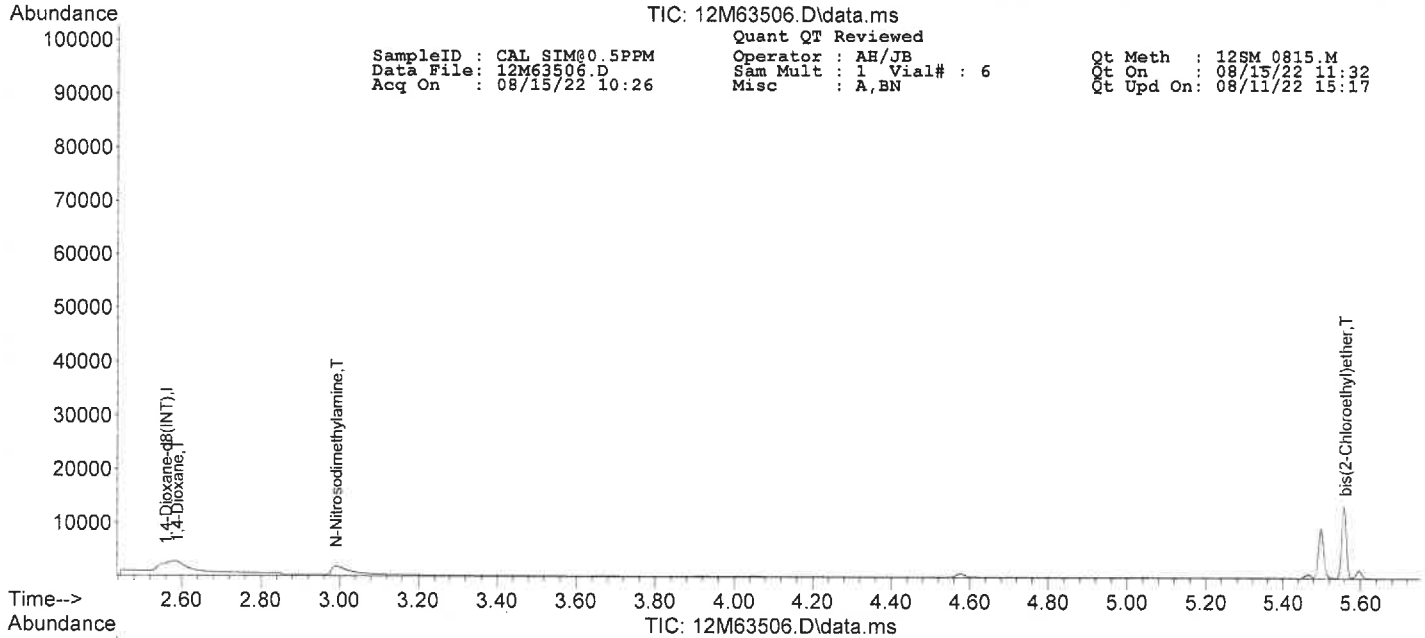
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.5PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63506.D Sam Mult : 1 Vial# : 6 Qt On : 08/15/22 11:32
Acq On : 08/15/22 10:26 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.557	96	21912	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	32533	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	141722	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	56659	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	107051	0.40	ng	0.00
31) Chrysene-d12	12.708	240	43104m	0.40	ng	0.00
36) Perylene-d12	14.319	264	23536m	0.40	ng	-0.01
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	171978	2.41	ng	0.00
Spiked Amount 50.000			Recovery =	4.82%		
17) 2-Fluorobiphenyl	7.620	172	459413	2.83	ng	0.00
Spiked Amount 50.000			Recovery =	5.66%		
33) Terphenyl-d14	11.468	244	388894	3.35	ng	0.00
Spiked Amount 50.000			Recovery =	6.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	28678m	0.5370	ng	
4) N-Nitrosodimethylamine	2.990	74	36925m	0.4586	ng	
5) bis(2-Chloroethyl)ether	5.562	93	66749	0.5280	ng	91
6) 2-Methylphenol	5.981	108	32382	0.4091	ng	86
7) Hexachloroethane	6.199	201	18278	0.4882	ng	39
8) 3&4-Methylphenol	6.095	108	31923m	0.4300	ng	
11) 2,4-Dimethylphenol	6.519	107	24971	0.3612	ng	79
12) Naphthalene	6.798	128	162474	0.4821	ng	98
13) Hexachlorobutadiene	6.902	225	30996	0.4137	ng	51
15) Hexachlorocyclopentadiene	7.462	237	19477	0.5089	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	16202	0.3507	ng	97
18) Acenaphthylene	8.083	152	119587	0.4597	ng	96
19) Acenaphthene	8.233	153	86108	0.5126	ng	72
20) Dibenzofuran	8.393	168	140834	0.5479	ng	97
21) Fluorene	8.711	166	74934	0.4892	ng	98
23) 4,6-Dinitro-2-methylph...	8.740	198	2362	0.3199	ng	88
24) 1,2-Diphenylhydrazine	8.849	77	63984	0.4402	ng	87
25) Hexachlorobenzene	9.254	284	33237	0.5395	ng	93
26) Pentachlorophenol	9.448	266	5315	0.2897	ng	93
27) Phenanthrene	9.685	178	142353	0.5134	ng	99
28) Anthracene	9.737	178	106036	0.4828	ng	97
29) Carbazole	9.909	167	104749	0.4598	ng	95
30) Fluoranthene	11.013	202	114269	0.4608	ng	100
32) Pyrene	11.276	202	123487	0.4819	ng	86
34) Benzo[a]anthracene	12.690	228	43226m	0.3351	ng	
35) Chrysene	12.736	228	84651m	0.5222	ng	
37) Benzo[b]fluoranthene	13.914	252	41827m	0.4021	ng	
38) Benzo[k]fluoranthene	13.940	252	61859m	0.5414	ng	
39) Benzo[a]pyrene	14.260	252	35682	0.3399	ng	98
40) Indeno[1,2,3-cd]pyrene	15.600	276	37270m	0.3710	ng	
41) Dibenzo[a,h]anthracene	15.627	278	31899m	0.3824	ng	
42) Benzo[g,h,i]perylene	15.965	276	40160	0.4184	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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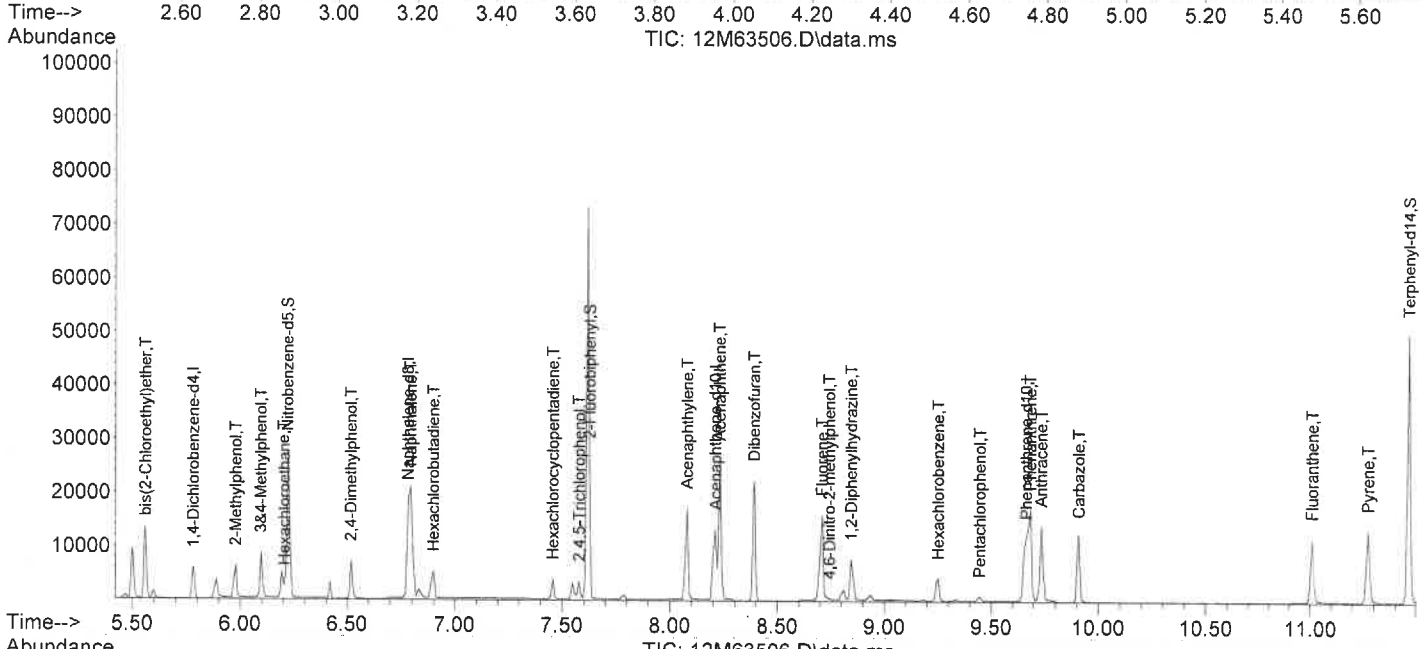
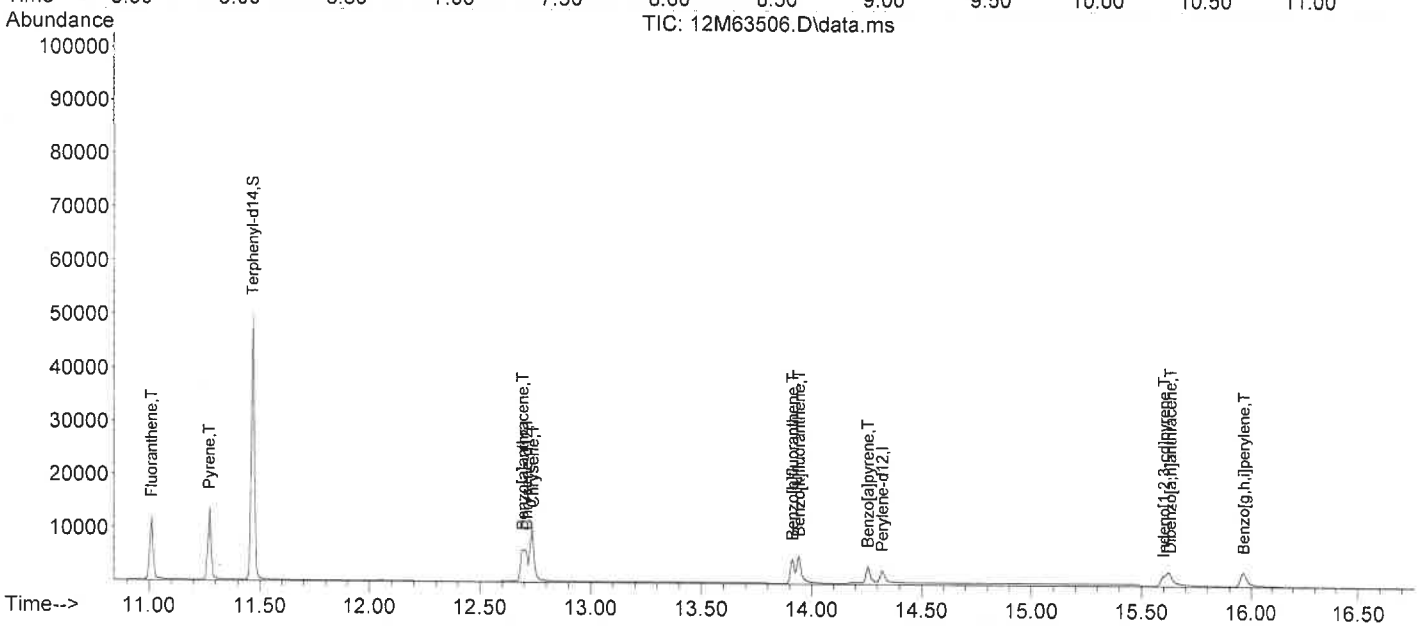
Quant QT Reviewed
SampleID : CAL SIM@0.5PPM
Data File: 12M63506.D
Acq On : 08/15/22 10:26
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:32
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63506.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63506.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@10PPM
Data File: 12M63508.D
Acq On : 08/15/22 11:09

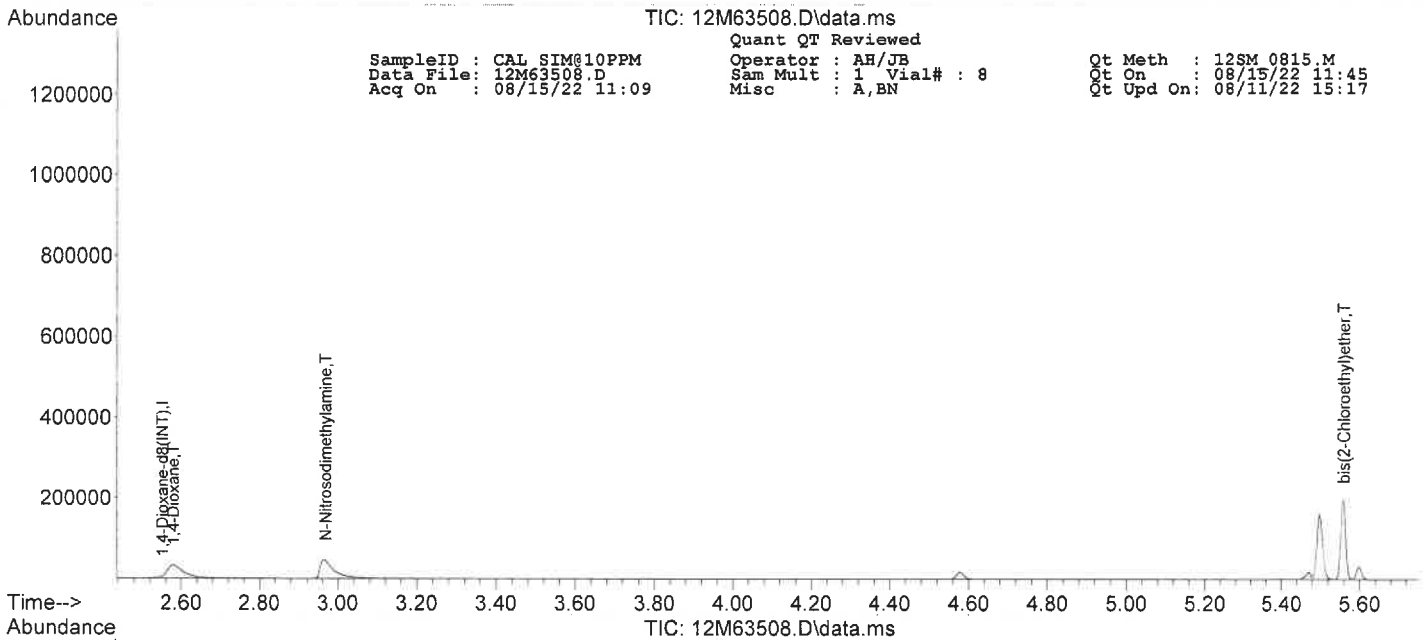
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN

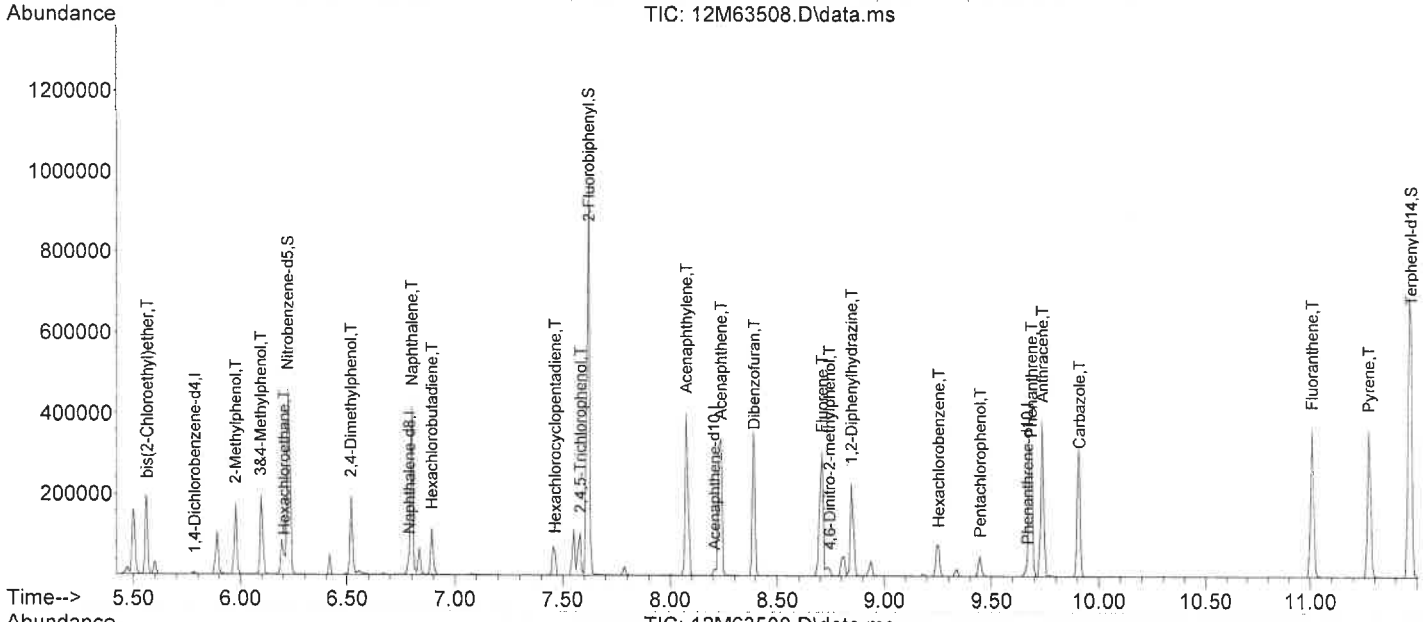
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:45
Qt Upd On: 08/11/22 15:17

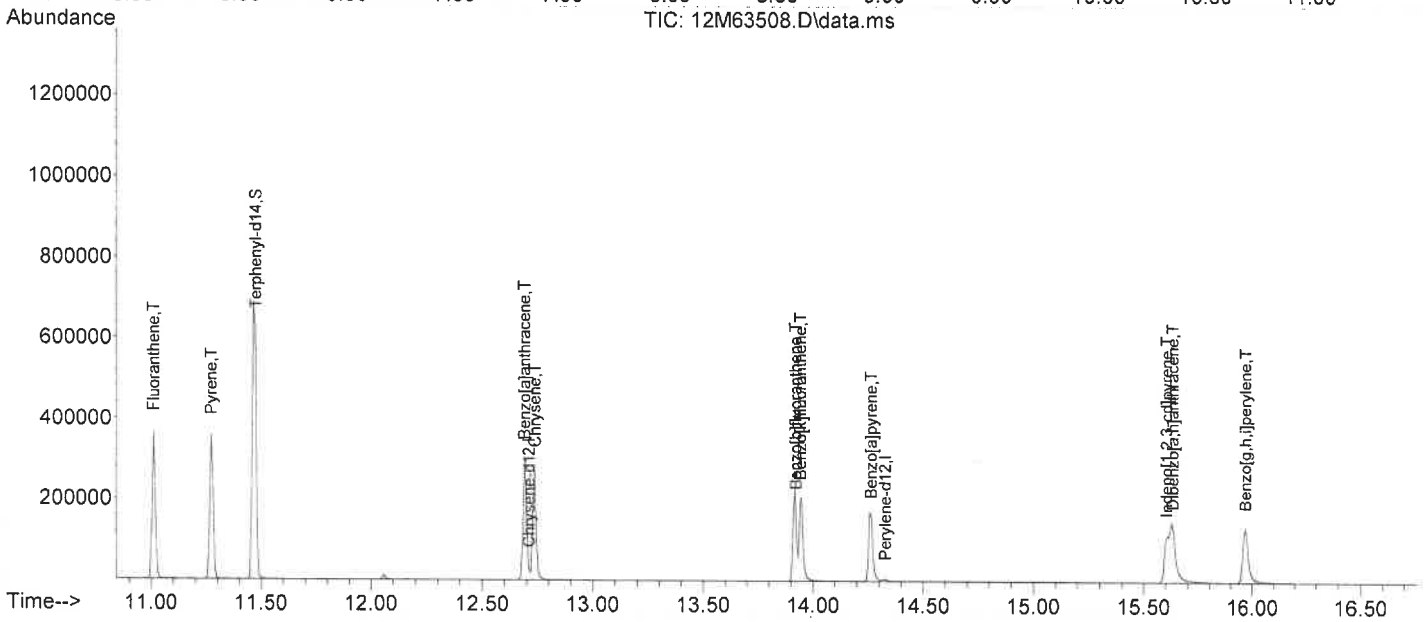
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.552	96	22624m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30081	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	137732	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	58102	0.40	ng	0.00
22) Phenanthrene-d10	9.663	188	118968	0.40	ng	0.00
31) Chrysene-d12	12.710	240	59062m	0.40	ng	0.00
36) Perylene-d12	14.329	264	37984	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	3358927	48.46	ng	0.00
Spiked Amount 50.000			Recovery = 96.92%			
17) 2-Fluorobiphenyl	7.622	172	6280477	37.68	ng	0.00
Spiked Amount 50.000			Recovery = 75.36%			
33) Terphenyl-d14	11.471	244	6591097	48.35	ng	0.00
Spiked Amount 50.000			Recovery = 96.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.583	88	545372	9.8917	ng	92
4) N-Nitrosodimethylamine	2.967	74	761579	10.2285	ng	80
5) bis(2-Chloroethyl)ether	5.562	93	978117	8.3679	ng	94
6) 2-Methylphenol	5.981	108	800304	10.9339	ng	88
7) Hexachloroethane	6.201	201	347528	10.0381	ng	42
8) 3&4-Methylphenol	6.095	108	802137m	11.6845	ng	
11) 2,4-Dimethylphenol	6.519	107	665705	9.9078	ng	83
12) Naphthalene	6.802	128	2944400	8.9894	ng	89
13) Hexachlorobutadiene	6.896	225	559152	7.6789	ng	83
15) Hexachlorocyclopentadiene	7.462	237	477996	12.1797	ng	72
16) 2,4,5-Trichlorophenol	7.581	196	457515m	9.6578	ng	
18) Acenaphthylene	8.080	152	2860880	10.7237	ng	89
19) Acenaphthene	8.233	153	1647433	9.5637	ng	97
20) Dibenzofuran	8.393	168	2256622	8.5603	ng	94
21) Fluorene	8.712	166	1641416	10.4500	ng	93
23) 4,6-Dinitro-2-methylph...	8.746	198	170126	20.7273	ng	82
24) 1,2-Diphenylhydrazine	8.851	77	1892893	11.7191	ng	89
25) Hexachlorobenzene	9.254	284	663270	9.6870	ng	97
26) Pentachlorophenol	9.449	266	291687	12.0047	ng	99
27) Phenanthrene	9.683	178	2967158	9.6289	ng	97
28) Anthracene	9.739	178	2664491	10.9156	ng	98
29) Carbazole	9.909	167	2598452	10.2626	ng	94
30) Fluoranthene	11.012	202	3168575	11.4970	ng	96
32) Pyrene	11.276	202	3340958	9.5156	ng	77
34) Benzo[a]anthracene	12.695	228	2157953	12.2106	ng	99
35) Chrysene	12.740	228	2043660	9.2005	ng	98
37) Benzo[b]fluoranthene	13.918	252	1788625	10.6542	ng	89
38) Benzo[k]fluoranthene	13.942	252	1919648m	10.4098	ng	
39) Benzo[a]pyrene	14.264	252	1824410	10.7679	ng	88
40) Indeno[1,2,3-cd]pyrene	15.609	276	1879881	11.5964	ng	95
41) Dibenzo[a,h]anthracene	15.634	278	1482088m	11.0098	ng	
42) Benzo[g,h,i]perylene	15.971	276	1632373	10.5371	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63508.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@10PPM
Data File: 12M63508.D
Acq On : 08/15/22 11:09
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:45
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63508.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63508.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14

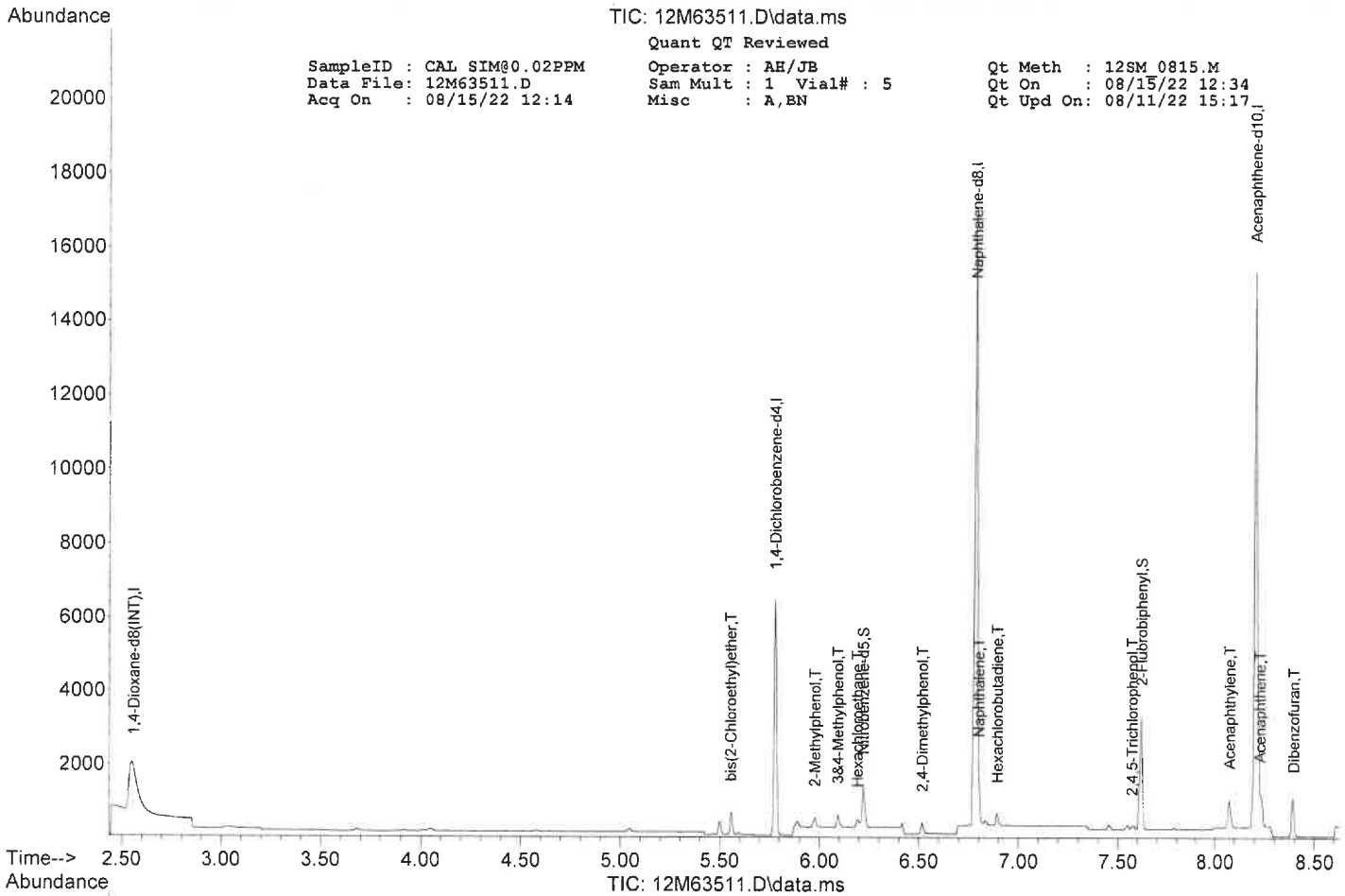
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN

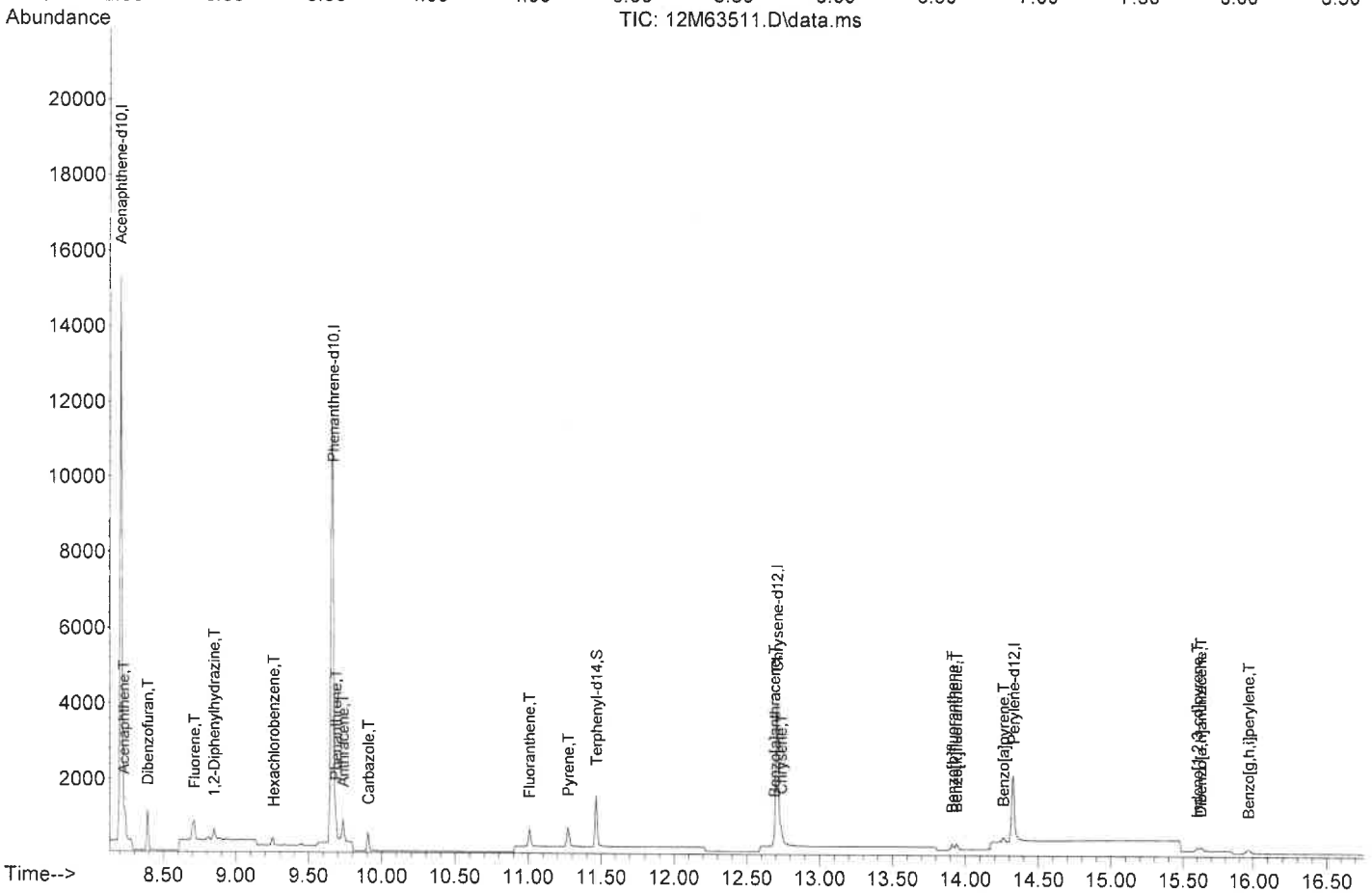
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	22735	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	35102	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	144080	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	57571	0.40	ng	0.00
22) Phenanthrene-d10	9.662	188	116007	0.40	ng	0.00
31) Chrysene-d12	12.710	240	33801m	0.40	ng	0.00
36) Perylene-d12	14.328	264	19336m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	7433	0.10	ng	0.00
Spiked Amount 50.000			Recovery = 0.20%			
17) 2-Fluorobiphenyl	7.622	172	20355	0.12	ng	0.00
Spiked Amount 50.000			Recovery = 0.24%			
33) Terphenyl-d14	11.468	244	11613	0.13	ng	0.00
Spiked Amount 50.000			Recovery = 0.26%			
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.557	93	3093m	0.0227	ng	
6) 2-Methylphenol	5.981	108	1424	0.0167	ng	90
7) Hexachloroethane	6.193	201	929m	0.0230	ng	
8) 3&4-Methylphenol	6.095	108	1558m	0.0195	ng	
11) 2,4-Dimethylphenol	6.519	107	1092	0.0155	ng	83
12) Naphthalene	6.799	128	8500m	0.0248	ng	
13) Hexachlorobutadiene	6.896	225	1565	0.0205	ng	84
16) 2,4,5-Trichlorophenol	7.571	196	786m	0.0168	ng	
18) Acenaphthylene	8.075	152	5439m	0.0206	ng	
19) Acenaphthene	8.226	153	3849m	0.0226	ng	
20) Dibenzofuran	8.393	168	6574	0.0252	ng	92
21) Fluorene	8.710	166	3084m	0.0198	ng	
24) 1,2-Diphenylhydrazine	8.850	77	2500	0.0159	ng	97
25) Hexachlorobenzene	9.254	284	1620	0.0243	ng	98
27) Phenanthrene	9.682	178	6893	0.0229	ng	99
28) Anthracene	9.739	178	4384	0.0184	ng	99
29) Carbazole	9.909	167	3955	0.0160	ng	94
30) Fluoranthene	11.012	202	4357	0.0162	ng	96
32) Pyrene	11.275	202	4715	0.0235	ng	83
34) Benzo[a]anthracene	12.692	228	1870m	0.0185	ng	
35) Chrysene	12.737	228	3143m	0.0247	ng	
37) Benzo[b]fluoranthene	13.915	252	1336m	0.0156	ng	
38) Benzo[k]fluoranthene	13.942	252	1635m	0.0174	ng	
39) Benzo[a]pyrene	14.258	252	1425m	0.0165	ng	
40) Indeno[1,2,3-cd]pyrene	15.601	276	1367m	0.0166	ng	
41) Dibenzo[a,h]anthracene	15.628	278	1105m	0.0161	ng	
42) Benzo[g,h,i]perylene	15.964	276	1620m	0.0205	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63511.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63511.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

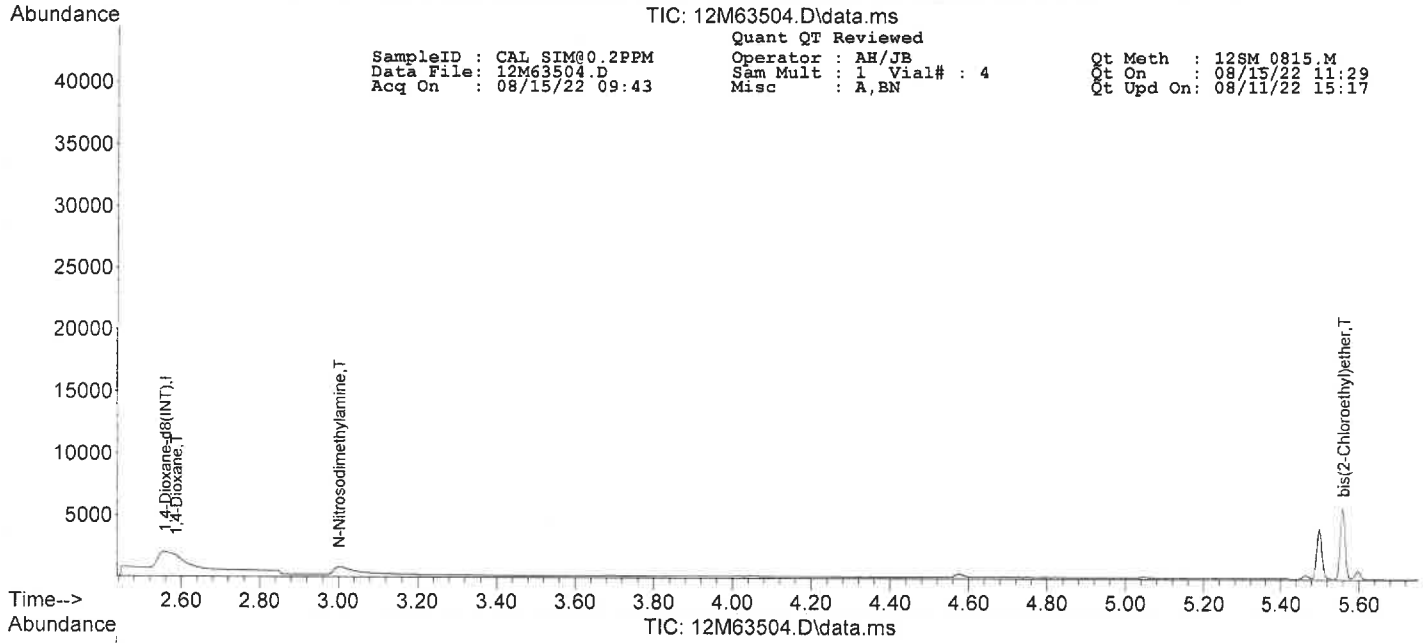
Quantitation Report (QT Reviewed)

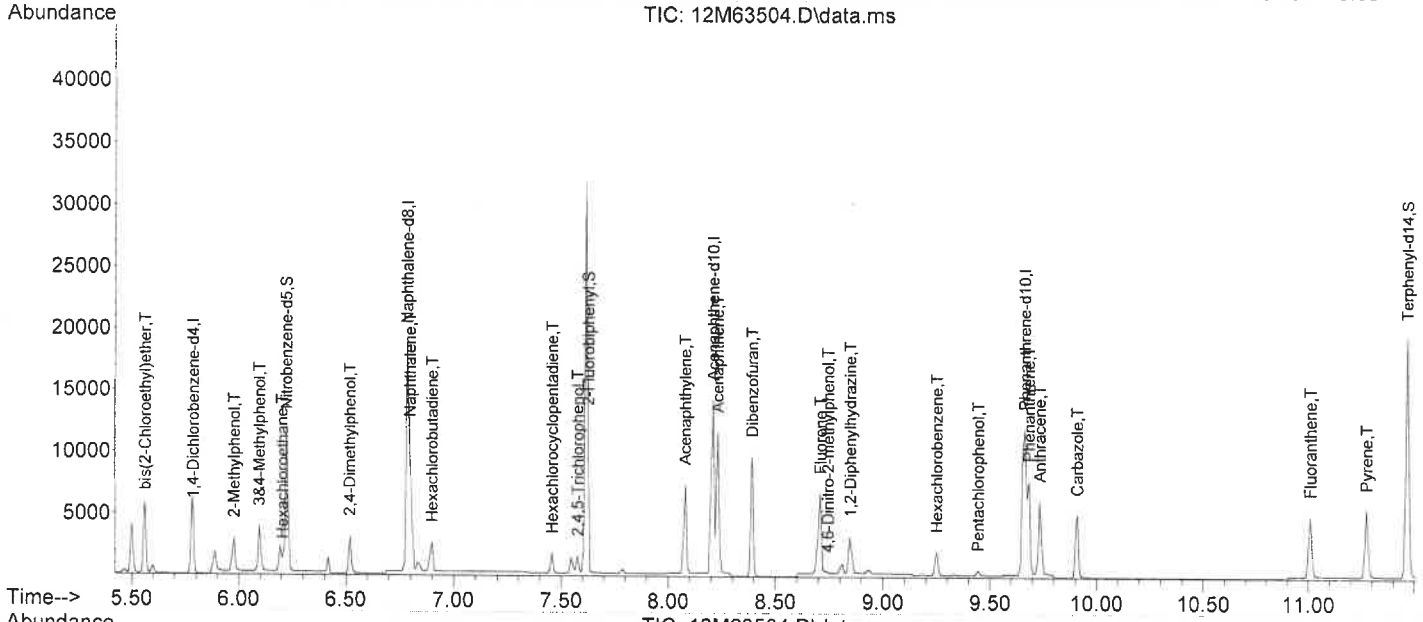
SampleID : CAL SIM@0.2PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63504.D Sam Mult : 1 Vial# : 4 Qt On : 08/15/22 11:29
Acq On : 08/15/22 09:43 Misc : A,BN Qt Upd On: 08/11/22 15:17

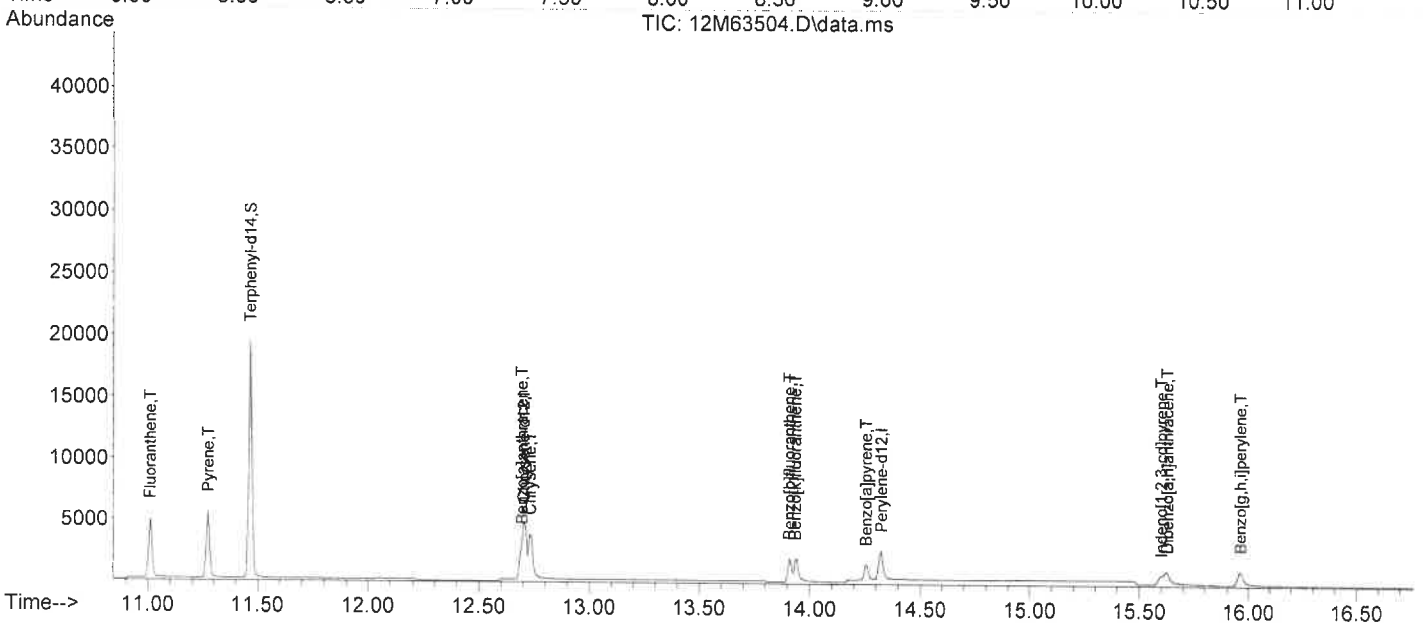
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.558	96	22395	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	34068	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145628	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	60159	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	113568	0.40	ng	0.00
31) Chrysene-d12	12.703	240	41332m	0.40	ng	0.00
36) Perylene-d12	14.325	264	23108	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	72641	0.99	ng	0.00
Spiked Amount 50.000			Recovery = 1.98%			
17) 2-Fluorobiphenyl	7.620	172	199661	1.16	ng	0.00
Spiked Amount 50.000			Recovery = 2.32%			
33) Terphenyl-d14	11.468	244	156698	1.40	ng	0.00
Spiked Amount 50.000			Recovery = 2.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	13471m	0.2468	ng	
4) N-Nitrosodimethylamine	3.001	74	15652m	0.1856	ng	
5) bis(2-Chloroethyl)ether	5.562	93	28478	0.2151	ng	92
6) 2-Methylphenol	5.981	108	14644	0.1767	ng	88
7) Hexachloroethane	6.200	201	7985	0.2037	ng	38
8) 3&4-Methylphenol	6.095	108	14143m	0.1819	ng	
11) 2,4-Dimethylphenol	6.519	107	10655	0.1500	ng	83
12) Naphthalene	6.798	128	69427	0.2005	ng	97
13) Hexachlorobutadiene	6.902	225	13838	0.1797	ng	53
15) Hexachlorocyclopentadiene	7.462	237	9365	0.2305	ng	97
16) 2,4,5-Trichlorophenol	7.579	196	6617	0.1349	ng	100
18) Acenaphthylene	8.083	152	49815	0.1803	ng	96
19) Acenaphthene	8.233	153	37939	0.2127	ng	71
20) Dibenzofuran	8.393	168	62148	0.2277	ng	97
21) Fluorene	8.708	166	29803m	0.1833	ng	
23) 4,6-Dinitro-2-methylph...	8.742	198	1079m	0.1378	ng	
24) 1,2-Diphenylhydrazine	8.848	77	25389	0.1647	ng	89
25) Hexachlorobenzene	9.254	284	14468	0.2213	ng	88
26) Pentachlorophenol	9.445	266	2532m	0.1304	ng	
27) Phenanthrene	9.685	178	61562	0.2093	ng	98
28) Anthracene	9.735	178	43436m	0.1864	ng	
29) Carbazole	9.910	167	44655	0.1848	ng	99
30) Fluoranthene	11.013	202	48371	0.1839	ng	99
32) Pyrene	11.276	202	50285	0.2047	ng	85
34) Benzo[a]anthracene	12.693	228	19683m	0.1592	ng	
35) Chrysene	12.730	228	32932m	0.2119	ng	
37) Benzo[b]fluoranthene	13.911	252	18830m	0.1844	ng	
38) Benzo[k]fluoranthene	13.938	252	20842m	0.1858	ng	
39) Benzo[a]pyrene	14.255	252	14371m	0.1394	ng	
40) Indeno[1,2,3-cd]pyrene	15.598	276	14883m	0.1509	ng	
41) Dibenzo[a,h]anthracene	15.625	278	12155m	0.1484	ng	
42) Benzo[g,h,i]perylene	15.962	276	16227m	0.1722	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63504.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.2PPM
Data File: 12M63504.D
Acq On : 08/15/22 09:43
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:29
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63504.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63504.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48

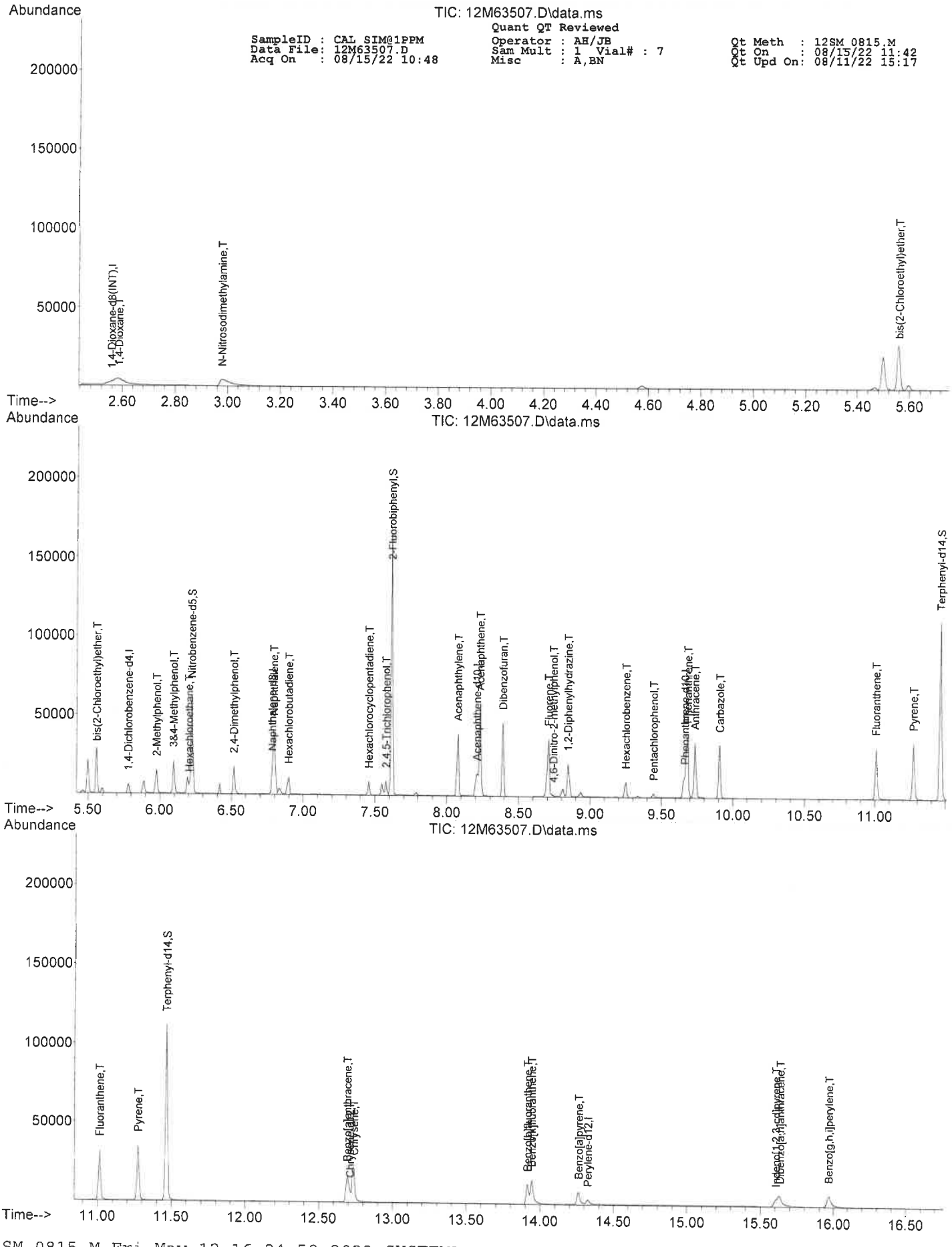
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	23130	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	33690	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	147512	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62101	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	115760	0.40	ng	0.00
31) Chrysene-d12	12.712	240	54007m	0.40	ng	0.00
36) Perylene-d12	14.324	264	29400m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	400613	5.40	ng	0.00
Spiked Amount 50.000			Recovery = 10.80%			
17) 2-Fluorobiphenyl	7.619	172	998273	5.60	ng	0.00
Spiked Amount 50.000			Recovery = 11.20%			
33) Terphenyl-d14	11.468	244	890316	6.18	ng	0.00
Spiked Amount 50.000			Recovery = 12.36%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	65218m	1.1570	ng	
4) N-Nitrosodimethylamine	2.979	74	82961m	0.9949	ng	
5) bis(2-Chloroethyl)ether	5.561	93	140924	1.0765	ng	89
6) 2-Methylphenol	5.981	108	77150	0.9411	ng	87
7) Hexachloroethane	6.200	201	39634	1.0222	ng	39
8) 3&4-Methylphenol	6.095	108	77897m	1.0132	ng	
11) 2,4-Dimethylphenol	6.519	107	60463	0.8402	ng	81
12) Naphthalene	6.798	128	339962	0.9691	ng	97
13) Hexachlorobutadiene	6.902	225	66607	0.8541	ng	52
15) Hexachlorocyclopentadiene	7.462	237	42225	1.0067	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	44201	0.8730	ng	98
18) Acenaphthylene	8.083	152	279891	0.9816	ng	97
19) Acenaphthene	8.233	153	192327	1.0446	ng	75
20) Dibenzofuran	8.393	168	301354	1.0696	ng	96
21) Fluorene	8.710	166	171975	1.0244	ng	98
23) 4,6-Dinitro-2-methylph...	8.742	198	6463	0.8092	ng	84
24) 1,2-Diphenylhydrazine	8.848	77	171842	1.0934	ng	87
25) Hexachlorobenzene	9.254	284	73775	1.1073	ng	85
26) Pentachlorophenol	9.445	266	15274m	0.7640	ng	
27) Phenanthrene	9.684	178	326747	1.0897	ng	99
28) Anthracene	9.737	178	256614	1.0804	ng	96
29) Carbazole	9.909	167	265660	1.0783	ng	95
30) Fluoranthene	11.013	202	281851	1.0510	ng	100
32) Pyrene	11.276	202	310077	0.9658	ng	83
34) Benzo[a]anthracene	12.694	228	137613m	0.8516	ng	
35) Chrysene	12.739	228	207812m	1.0231	ng	
37) Benzo[b]fluoranthene	13.917	252	113161	0.8709	ng	94
38) Benzo[k]fluoranthene	13.946	252	182957	1.2818	ng	98
39) Benzo[a]pyrene	14.264	252	101956	0.7775	ng	95
40) Indeno[1,2,3-cd]pyrene	15.605	276	103772m	0.8270	ng	
41) Dibenzo[a,h]anthracene	15.632	278	88610m	0.8504	ng	
42) Benzo[g,h,i]perylene	15.969	276	109829	0.9160	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
TIC: 12M63507.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->
TIC: 12M63507.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

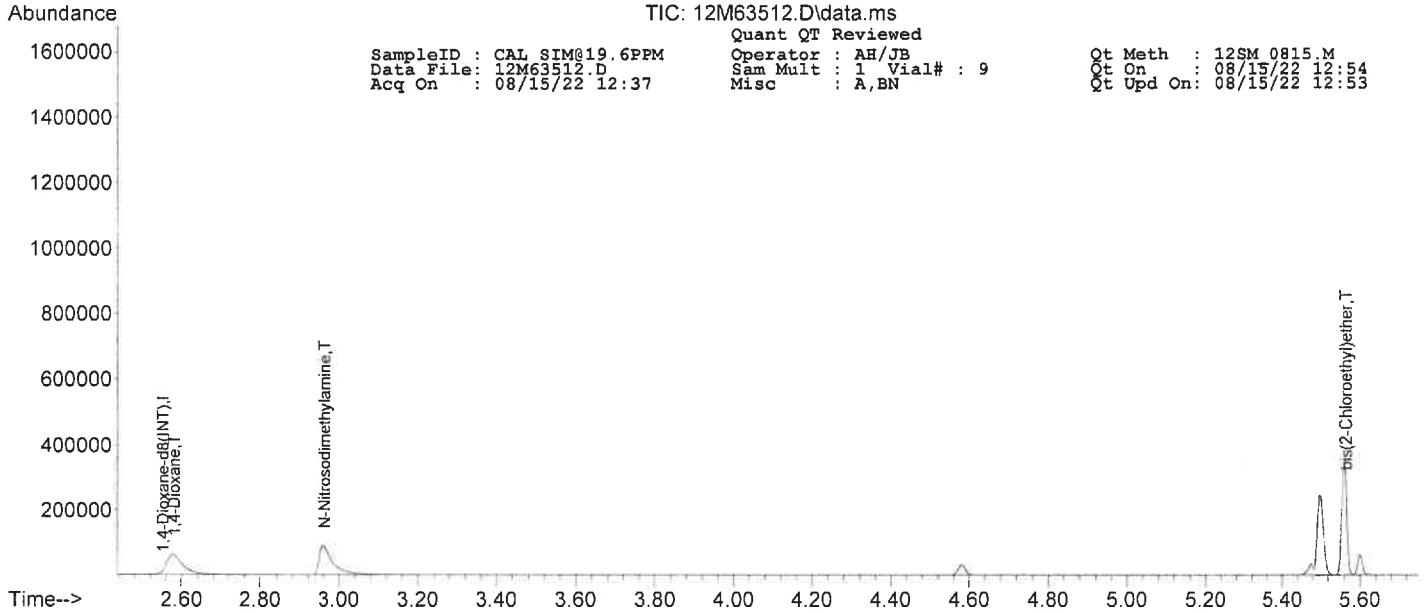
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@19.6PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63512.D Sam Mult : 1 Vial# : 9 Qt On : 08/15/22 12:54
Acq On : 08/15/22 12:37 Misc : A,BN Qt Upd On: 08/15/22 12:53

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.551	96	23096	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	32792	0.40	ng	0.00
9) Naphthalene-d8	6.787	136	147184	0.40	ng	0.00
14) Acenaphthene-d10	8.213	164	70294	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	125651	0.40	ng	0.00
31) Chrysene-d12	12.714	240	60522m	0.40	ng	0.00
36) Perylene-d12	14.331	264	43812	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.227	82	6121125	83.25	ng	0.00
Spiked Amount 50.000			Recovery = 166.50%			
17) 2-Fluorobiphenyl	7.624	172	10509948	52.87	ng	0.00
Spiked Amount 50.000			Recovery = 105.74%			
33) Terphenyl-d14	11.474	244	10859849	96.91	ng	0.00
Spiked Amount 50.000			Recovery = 193.82%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.582	88	1043453	16.9129	ng	95
4) N-Nitrosodimethylamine	2.962	74	1431244	18.2166	ng	79
5) bis(2-Chloroethyl)ether	5.563	93	1722008	13.7344	ng	84
6) 2-Methylphenol	5.981	108	1487862	19.7315	ng	89
7) Hexachloroethane	6.203	201	668601	17.4688	ng	44
8) 3&4-Methylphenol	6.106	108	1516567	19.9866	ng	98
11) 2,4-Dimethylphenol	6.519	107	1246893	20.6877	ng	86
12) Naphthalene	6.800	128	4888493	14.5856	ng	100
13) Hexachlorobutadiene	6.902	225	1062315	16.1379	ng	51
15) Hexachlorocyclopentadiene	7.463	237	993221	19.0473	ng	97
16) 2,4,5-Trichlorophenol	7.575	196	1018816m	20.3530	ng	
18) Acenaphthylene	8.084	152	5051879	16.3711	ng	97
19) Acenaphthene	8.234	153	2933183	14.2904	ng	77
20) Dibenzofuran	8.395	168	4062257	12.7045	ng	95
21) Fluorene	8.711	166	2923284	15.9339	ng	99
23) 4,6-Dinitro-2-methylph...	8.745	198	459973	36.8116	ng	94
24) 1,2-Diphenylhydrazine	8.856	77	3450319	20.8875	ng	32
25) Hexachlorobenzene	9.255	284	1214333	16.0152	ng	67
26) Pentachlorophenol	9.448	266	630346	19.7157	ng	87
27) Phenanthrene	9.686	178	5174712	15.6690	ng	97
28) Anthracene	9.738	178	4854887	18.8463	ng	96
29) Carbazole	9.911	167	4691483	18.4921	ng	95
30) Fluoranthene	11.014	202	5732831	20.1150	ng	94
32) Pyrene	11.277	202	5998286	17.0290	ng	76
34) Benzo[a]anthracene	12.697	228	4002347	23.9622	ng	97
35) Chrysene	12.742	228	3645846	15.9289	ng	98
37) Benzo[b]fluoranthene	13.921	252	3380593	19.2249	ng	94
38) Benzo[k]fluoranthene	13.951	252	3524794	16.5098	ng	94
39) Benzo[a]pyrene	14.268	252	3537717	18.8999	ng	91
40) Indeno[1,2,3-cd]pyrene	15.614	276	3746127	22.5305	ng	97
41) Dibenzo[a,h]anthracene	15.639	278	2916675	21.2098	ng	94
42) Benzo[g,h,i]perylene	15.976	276	3167785	19.1954	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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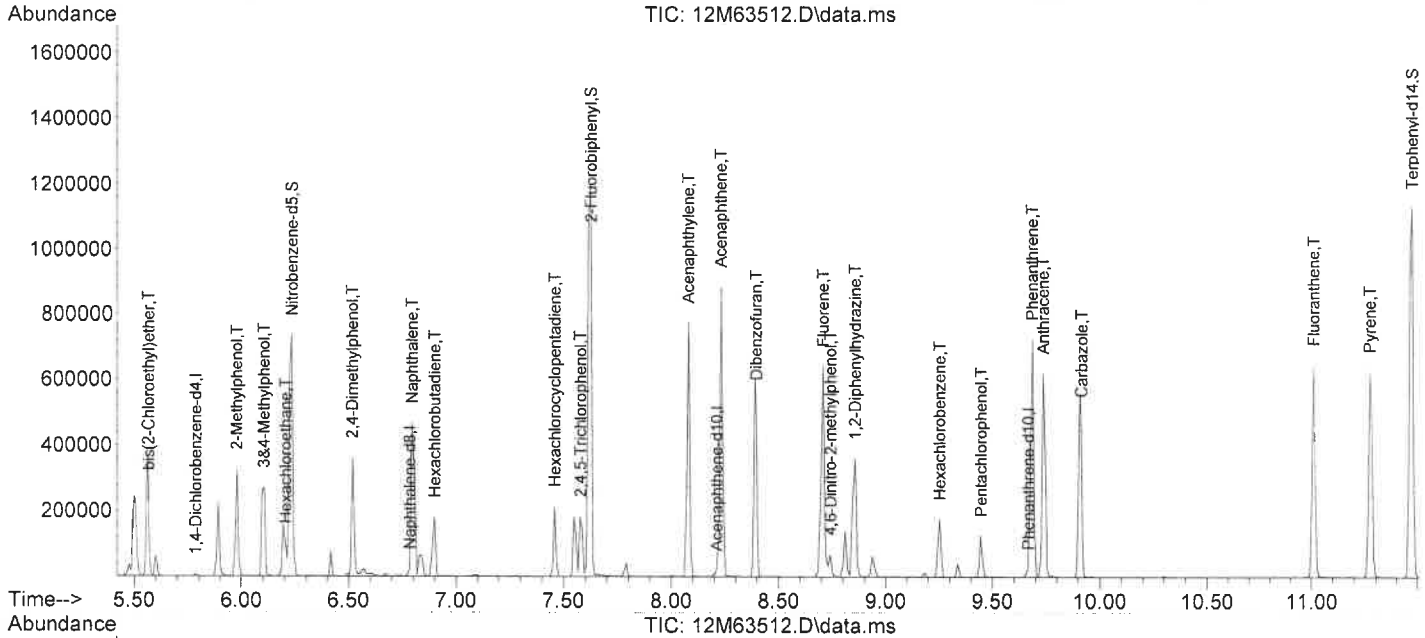
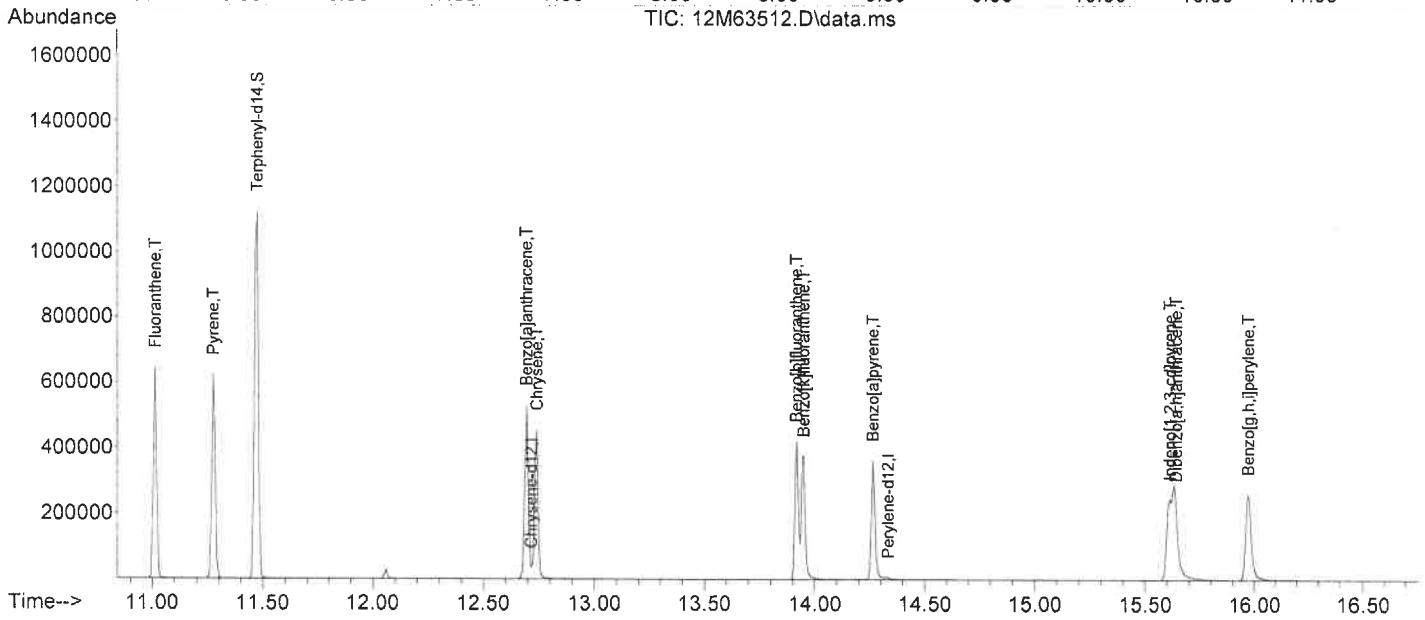
Quant QT Reviewed
SampleID : CAL SIM@19.6PPM
Data File: 12M63512.D
Acq On : 08/15/22 12:37
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:54
Qt Upd On: 08/15/22 12:53
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63512.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63512.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,T
Chrysene-d12,I
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M63592.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 8/19/2022 9:09:00 A **Method:** EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	4.63		**		1.069			
1,4-Dichlorobenzene-d4	1	0	I	5.78	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.97	5.55	5	20	0.01	0.958	1.064	11.06	
bis(2-Chloroethyl)ether	1	0		5.56	4.57		**		1.527			
2-Methylphenol	1	0		5.98	5.98	5	20		0.918	1.099	19.67	
Hexachloroethane	1	0		6.20	5.09	5	20	0.3	0.467	0.475	1.74	
3&4-Methylphenol	1	0		5.98	5.94	5	20		0.926	1.100	18.78	
Naphthalene-d8	1	0	I	6.79	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	25.97		**		0.201			
2,4-Dimethylphenol	1	0		6.52	5.63	5	20		0.166	0.186	12.53	
Naphthalene	1	0		6.80	4.80	5	20	0.7	0.914	0.877	4.02	
Hexachlorobutadiene	1	0		6.90	4.50	5	20	0.01	0.179	0.161	10.05	
Acenaphthene-d10	1	0	I	8.21	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.46	4.82	5	20		0.296	0.285	3.53	
2,4,5-Trichlorophenol	1	0		7.58	4.72		**		0.275			
2-Fluorobiphenyl	1	0	S	7.62	23.20		**		1.131			
Acenaphthylene	1	0		8.08	5.21	5	20	0.9	1.756	1.829	4.13	
Acenaphthene	1	0		8.23	4.77	5	20	0.9	1.170	1.117	4.54	
Dibenzofuran	1	0		8.39	4.59	5	20		1.821	1.557	8.26	
Fluorene	1	0		8.71	5.17	5	20	0.9	1.046	1.081	3.33	
Phenanthrene-d10	1	0	I	9.66	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.74	5.51	5	20	0.01	0.040	0.050	10.24	
1,2-Diphenylhydrazine	1	0		8.85	4.55	5	20		0.528	0.603	8.99	
Hexachlorobenzene	1	0		9.25	4.57	5	20	0.1	0.242	0.221	8.52	
Pentachlorophenol	1	0		9.45	5.67	5	20	0.05	0.071	0.105	13.46	
Phenanthrene	1	0		9.68	4.79	5	20	0.7	1.053	1.008	4.25	
Anthracene	1	0		9.74	5.42	5	20	0.7	0.821	0.890	8.33	
Carbazole	1	0		9.91	5.53	5	20	0.01	0.808	0.894	10.58	
Fluoranthene	1	0		11.01	6.00	5	20	0.6	0.910	1.091	19.90	
Chrysene-d12	1	0	I	12.70	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.27	4.55	5	20	0.6	2.329	2.118	9.05	
Terphenyl-d14	1	0	S	11.47	22.62		**		1.208			
Benzo[a]anthracene	1	0		12.69	4.80	5	20	0.8	1.104	1.377	3.99	
Chrysene	1	0		12.74	4.42	5	20	0.7	1.514	1.339	11.56	
Perylene-d12	1	0	I	14.32	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.91	5.21	5	20	0.7	1.603	1.670	4.14	
Benzo[k]fluoranthene	1	0		13.94	4.79	5	20	0.7	1.936	1.856	4.14	
Benzo[a]pyrene	1	0		14.26	4.87	5	20	0.7	1.471	1.663	2.65	
Indeno[1,2,3-cd]pyrene	1	0		15.60	4.60	5	20	0.5	1.517	1.676	8.05	
Dibenzo[a,h]anthracene	1	0		15.63	4.37	5	20	0.4	1.245	1.309	12.58	
Benzo[g,h,i]perylene	1	0		15.97	4.88	5	20	0.5	1.507	1.472	2.35	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09

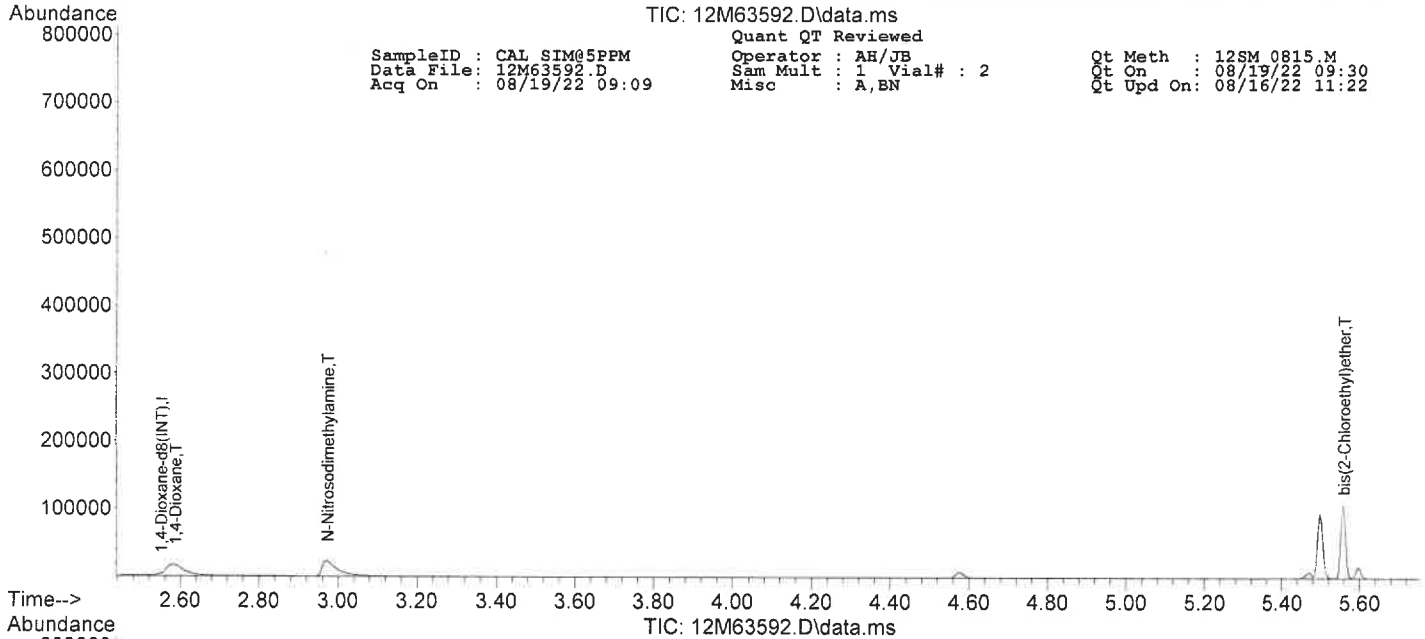
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-19-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.555	96	24236	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.784	152	31231	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145140	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	65959	0.40	ng	0.00
22) Phenanthrene-d10	9.659	188	133138	0.40	ng	0.00
31) Chrysene-d12	12.702	240	72314m	0.40	ng	0.00
36) Perylene-d12	14.325	264	50268	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1892271	25.97	ng	0.00
Spiked Amount 50.000			Recovery = 51.94%			
17) 2-Fluorobiphenyl	7.619	172	3798960	23.20	ng	0.00
Spiked Amount 50.000			Recovery = 46.40%			
33) Terphenyl-d14	11.467	244	4027465	22.62	ng	0.00
Spiked Amount 50.000			Recovery = 45.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.585	88	299721	4.6259	ng	96
4) N-Nitrosodimethylamine	2.973	74	415550	5.5528	ng	78
5) bis(2-Chloroethyl)ether	5.561	93	544588	4.5667	ng	89
6) 2-Methylphenol	5.981	108	428914	5.9834	ng	86
7) Hexachloroethane	6.198	201	185479	5.0870	ng	36
8) 3&4-Methylphenol	5.980	108	429241	5.9390	ng	87
11) 2,4-Dimethylphenol	6.519	107	338246	5.6266	ng	79
12) Naphthalene	6.799	128	1590967	4.7990	ng	99
13) Hexachlorobutadiene	6.901	225	292644	4.4973	ng	48
15) Hexachlorocyclopentadiene	7.462	237	235354	4.8235	ng	91
16) 2,4,5-Trichlorophenol	7.575	196	213843m	4.7185	ng	
18) Acenaphthylene	8.082	152	1507690	5.2064	ng	99
19) Acenaphthene	8.233	153	920576	4.7729	ng	82
20) Dibenzofuran	8.391	168	1283632	4.5869	ng	92
21) Fluorene	8.710	166	891458	5.1667	ng	91
23) 4,6-Dinitro-2-methylph...	8.743	198	82616	5.5120	ng	81
24) 1,2-Diphenylhydrazine	8.848	77	1003364	4.5503	ng	91
25) Hexachlorobenzene	9.254	284	368006	4.5741	ng	92
26) Pentachlorophenol	9.448	266	174375	5.6731	ng	96
27) Phenanthrene	9.681	178	1677812	4.7874	ng	97
28) Anthracene	9.737	178	1480446	5.4163	ng	98
29) Carbazole	9.908	167	1487661	5.5289	ng	94
30) Fluoranthene	11.012	202	1816066	5.9950	ng	96
32) Pyrene	11.275	202	1914697	4.5474	ng	92
34) Benzo[a]anthracene	12.693	228	1244537	4.8006	ng	95
35) Chrysene	12.735	228	1210613	4.4222	ng	96
37) Benzo[b]fluoranthene	13.913	252	1049232	5.2070	ng	95
38) Benzo[k]fluoranthene	13.942	252	1166180	4.7928	ng	94
39) Benzo[a]pyrene	14.260	252	1044816	4.8673	ng	89
40) Indeno[1,2,3-cd]pyrene	15.604	276	1053178	4.5977	ng	95
41) Dibenzo[a,h]anthracene	15.629	278	822641	4.3708	ng	92
42) Benzo[g,h,i]perylene	15.966	276	924622	4.8824	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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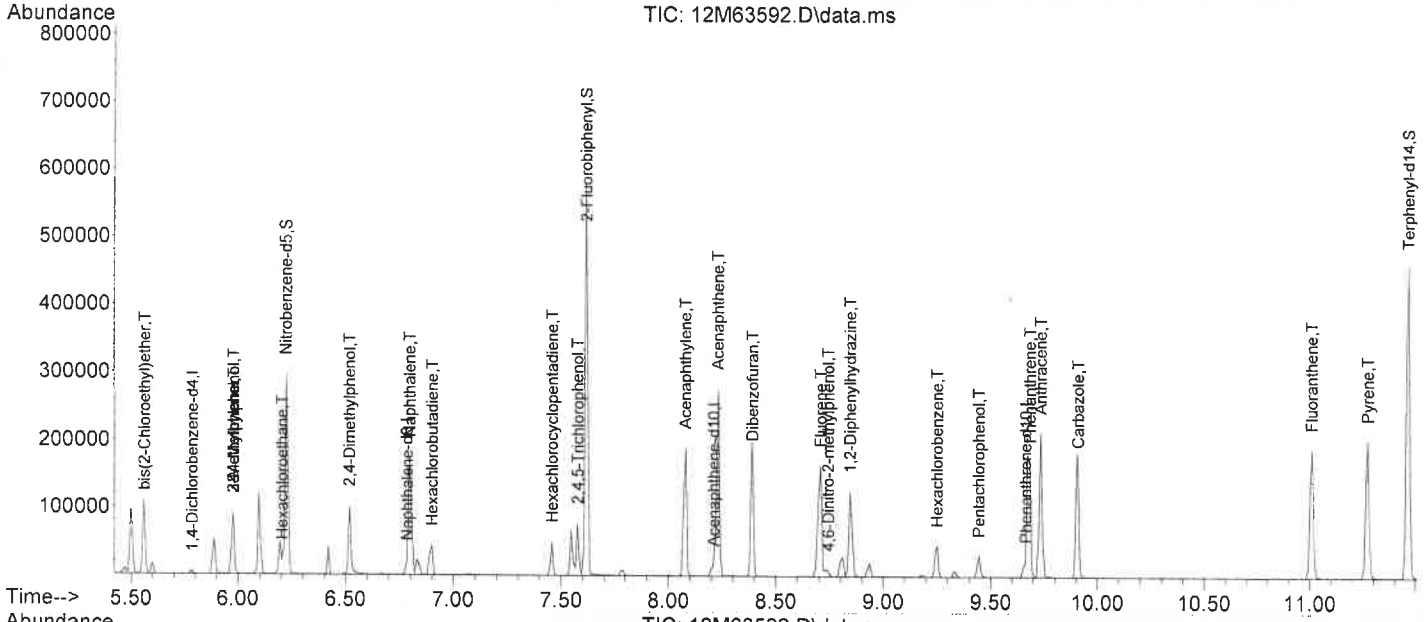
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
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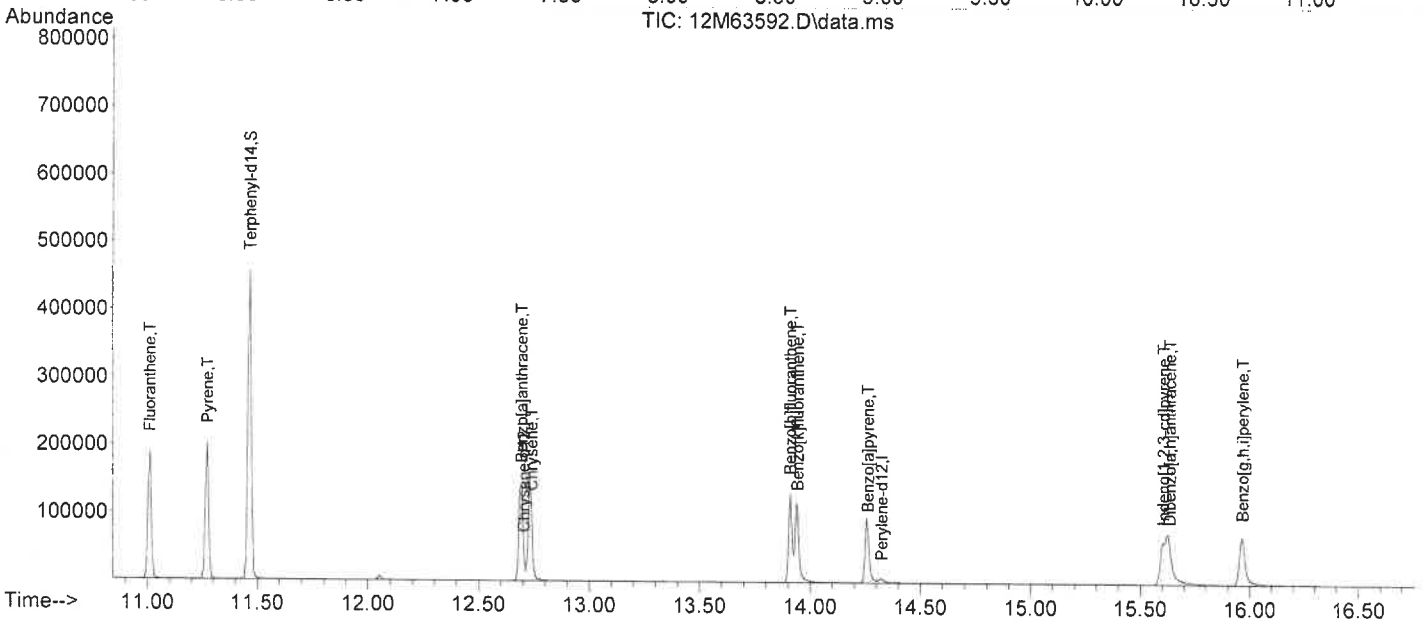
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63592.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

QC102718 Pest

QC102719 PCB

Hampton-Clarke

Shaker Extraction: (Pest) (3510C) / (PCB) (3510C) / Other(_____):

Pest Batch No.: 102718
Start Ext Date/Time: ~~8/17/22~~ jm 8/17/22 8/17/22 5:02pm
End Ext. Date/Time: 8/18/22 4:27am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

PCB Batch No.: 102719
Shaker Used: 2, 3, 4
Condenser Used: 1, 2
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102718 / 719	X	X	1000mL	5mL	jm	32691-001	EF, 377745 8/16
MBS 102718/719	X	X	↓	↓			
MS 32691-001	X		100mL				
MSD 32691-001	X		↓				
MS 32707-011		X	500mL				
MSD 32707-011		X	↓				
AD 32691-001	1		100mL			1	1
EF, 377745 8/16	X		↓	↓			
AD 32707-011		1	500mL	2.5mL	1/2 Surr.		
↓ -012		2	1000mL	5mL			
AD 32679-001	2	3					
AD 32715-001		4					
-002		5					
-003		6					
-004		7					
-005		8					
↓ -006		9					
AD 32722-001	3	10					
-003	4	11					
↓ -006	5	12	↓	↓	↓		
					Rack #19		
Copper Cleanup:	____	____					
Sulfuric Acid Cleanup:	N/A	X					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14721 baked Na_2SO_4: 377180 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: jm Date: 8/17/22
Received By: AR Date: 8/18/22

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/22/22
Data File: SW08222022A
Prep Batch: 101940
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2081222

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-378228-11	CCB V-378228-22	CCB V-377708-34	CCB V-377708-46	CCB V-378228-52	MB 101940-23
Arsenic	.5U	1U	1U	1U	1U	1U
Beryllium	.25U	.5U	.5U	.5U	.5U	.5U
Chromium	.5U	1U	1U	1U	1U	1U
Copper	2.5U	5U	5U	5U	5U	5U
Iron	75U	150U	150U	150U	150U	150U
Lead	.75U	1.5U	1.5U	1.5U	1.5U	1.5U
Nickel	.75U	1.5U	1.5U	1.5U	1.5U	1.5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 101940

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 101940

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	25	SW082220	24	256.0710	257.6840	.63	20
Chromium	101940	SW082220	25	SW082220	24	273.6870	275.4190	.63	20
Copper	101940	SW082220	25	SW082220	24	257.5620	257.5060	.022	20
Lead	101940	SW082220	25	SW082220	24	245.5650	245.8830	.13	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	27	SW082220	26	1U	1U	---	20
Chromium	101940	SW082220	27	SW082220	26	1U	1U	---	20
Copper	101940	SW082220	27	SW082220	26	5U	5U	---	20
Lead	101940	SW082220	27	SW082220	26	1.5U	1.5U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	29	SW082220	28	261.4290	248.9670	4.9	20
Chromium	101940	SW082220	29	SW082220	28	273.0760	261.3450	4.4	20
Copper	101940	SW082220	29	SW082220	28	254.2400	239.9580	5.8	20
Lead	101940	SW082220	29	SW082220	28	243.4830	230.7070	5.4	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	101940	SW082220	31	SW082220	26	5	0.0930	0.5390	14	a	10
Chromium	101940	SW082220	31	SW082220	26	5	0.1480	0.4610	61	c	10
Copper	101940	SW082220	31	SW082220	26	5	-0.0020	0.4940	---		10
Lead	101940	SW082220	31	SW082220	26	5	0.0600	0.2880	4.2		10

a-Indicates Rpd Failed the criteria
b-Method Rep Out but concentrations < 5*RL
c-Serial dilution Out but conc < 10 * IDL

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD36716
May 16, 2023
Sampling date: 3/8, 9/2023

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD36716 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	DAY-1	AD36716-01
2	VE 4-9	AD36716-02
3	FA 4-9	AD36716-03
4	VE 4-7	AD36716-04
5	FA 4-16	AD36716-05
6	PGW-2	AD36716-06
7	Oull-A	AD36716-07
8	Oull-B	AD36716-08
9	Oull-C	AD36716-09
10	Oull-D	AD36716-10
11	OU11-E	AD36716-11
12	OU11-F	AD36716-12
13	VE 3-1	AD36716-13
14	VE 1-2	AD36716-14
15	VE 1-4	AD36716-15
16	VE 1-4 MS	AD36716-16
17	VE 1-4 MSD	AD36716-17
18	VE 2-1	AD36716-18
19	VE 4-11	AD36716-19
20	030923DUP	AD36716-20
21	030923EB	AD36716-21
22	Trip Blank	AD36716-22

All target analytes were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recovery, Laboratory Control Samples, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#1 and #13-20 was outside QC limits. These samples were analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Toluene-d_8 was outside QC limits, low in DUSR ID#17. The associated target analytes below should be qualified as estimated in this sample.

1,3,5-Trimethylbenzene	Benzene	Chlorobenzene
Isopropylbenzene	m&p-Xylene	Ethylbenzene
Toluene	o-Xylene	

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of some target analytes were outside QC limits in the laboratory control samples and should be qualified as estimated. These target analytes should be qualified in the associated samples.

LCS ID	Target Analyte	%Rec	Qualifier	Associated Sample
MBS107544	Ethylbenzene	62	UJ	15
MBS107544	m&p-Xylene	65	UJ	15
MBS107544	Naphthalene	44	UJ	15
MBS107544	Methyl tert butyl ether	164	JH	none
MBS107552	1,3,5-Trimethylbenzene	383	JH	13

MS/MSD
All criteria were met except the %Rec of a couple of target analytes was outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated. These target analytes should be qualified in the associated samples.

Target Analyte	%Rec #16	%Rec #17	Qualifier	Associated Sample
Methyl tert butyl ether	147	178	JH	none
Toluene	68	72	UJ	15, 20

Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
6M165218.D	Toluene	29.87	UJ/J	MB/MBS107544, 15-17
6M165218.D	n-Butylbenzene	28.31	UJ/J	MB/MBS107544, 15-17
6M165256.D	Methyl tert butyl ether	72.16	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165256.D	Ethylbenzene	21.27	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165299.D	Methyl tert butyl ether	73.35	UJ/J	MB/MBS107558, 21, 22
6M165299.D	Ethylbenzene	25.44	UJ/J	MB/MBS107558, 21, 22
6M165299.D	o-Xylene	23.38	UJ/J	MB/MBS107558, 21, 22

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7 for the continuing calibration file #12M66140.D. An updated form is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#15, #18, #20, #21 and WMB106862. There were no associated target analytes detected in these samples, so no further action is required.
The %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#16, #17 and MS106862. The associated target analytes below should be qualified as estimated high in these spikes.

2-Methylnaphthalene	Naphthalene

The %Rec of Nitrobenzene-d_5 was outside QC limits, low in DUSR ID#1. The associated target analytes below should be qualified as estimated in this sample.

2-Methylnaphthalene	Naphthalene

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Initial Calibration and Continuing Calibration.

Samples: DUSR ID#2, #4 and #7 were diluted.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the chromatogram for DUSR ID#21 was not legible in the original package. Updated pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Serial Dilution.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except Cr, Cu and Pb were detected in DUSR ID#15 but were not detected in #20.

SERIAL DILUTION
All criteria were met except the %D of a couple of target analytes was outside QC limits in the serial dilution and should be qualified as estimated.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
15SD	As	22	UJ	15, 20
15SD	Pb	34	UJ/J	15, 20

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project: 3031102

Hampton-Clarke (HC) received the following samples on 3/10/23:

Client ID	HC Sample ID	Matrix	Analysis
DAY-1	AD36716-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-9	AD36716-002	Aqueous	PCB (8082A)
FA 4-9	AD36716-003	Aqueous	PCB (8082A)
VE 4-7	AD36716-004	Aqueous	PCB (8082A)
FA 4-16	AD36716-005	Aqueous	PCB (8082A)
PGW-2	AD36716-006	Aqueous	PCB (8082A)
Oull-A	AD36716-007	Aqueous	PCB (8082A)
Oull-B	AD36716-008	Aqueous	PCB (8082A)
Oull-C	AD36716-009	Aqueous	PCB (8082A)
Oull-D	AD36716-010	Aqueous	PCB (8082A)
OU11-E	AD36716-011	Aqueous	PCB (8082A)
OU11-F	AD36716-012	Aqueous	PCB (8082A)
VE 3-1	AD36716-013	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-2	AD36716-014	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4	AD36716-015	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MS	AD36716-016	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MSD	AD36716-017	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 2-1	AD36716-018	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-11	AD36716-019	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923DUP	AD36716-020	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923 EB	AD36716-021	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
Trip Blank	AD36716-022	Aqueous	Volatile Organics (8260D)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 107539, 107544, 107552, 107558 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 107552. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 107539, 107544 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The Method Blank Spike for batches 106837, 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 106837 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD36716-001 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

The Method Blank Spike for batch 106874 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

Sample AD36716-004 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Sample AD36716-020 was extracted outside the hold time.

Metals Analysis:

The serial dilution for batch 104579 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	 Jean Revolus Laboratory Director	4/18/2023 Date

HC Report of Analysis

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project #: 3031102

Sample ID: DAY-1
Lab#: AD36716-001
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	**1**	**ug/l**	**2.0**	**4.1**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	**1**	**ug/l**	**2.0**	**7.2**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**11**
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**9.4**
Chromium	**1**	**ug/l**	**2.0**	**4.9**
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND

Sample ID: DAY-1 **Collection Date:** 3/8/2023
Lab#: AD36716-001 **Receipt Date:** 3/10/2023
Matrix: Aqueous

m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-9
Lab#: AD36716-002
Matrix: Oil
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1016	5	mg/kg	2.5	ND
Aroclor-1221	5	mg/kg	2.5	ND
Aroclor-1232	5	mg/kg	2.5	ND
Aroclor-1242	5	mg/kg	2.5	ND
Aroclor-1248	5	mg/kg	2.5	ND
Aroclor-1254	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1260	5	mg/kg	2.5	ND
Aroclor-1262	5	mg/kg	2.5	ND
Aroclor-1268	5	mg/kg	2.5	ND

Sample ID: FA 4-9
Lab#: AD36716-003
Matrix: Oil
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: VE 4-7
Lab#: AD36716-004
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**47**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**47**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: FA 4-16
Lab#: AD36716-005
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**34**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**34** ~~X~~ 5 4m
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: PGW-2
Lab#: AD36716-006
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: Oull-A
Lab#: AD36716-007
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**33**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**33**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: Oull-B
Lab#: AD36716-008
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.50**	**7**
Aroclor-1016	1	ug/l	0.50	ND
Aroclor-1221	1	ug/l	0.50	ND
Aroclor-1232	1	ug/l	0.50	ND
Aroclor-1242	1	ug/l	0.50	ND
Aroclor-1248	1	ug/l	0.50	ND
Aroclor-1254	**1**	**ug/l**	**0.50**	**7**
Aroclor-1260	1	ug/l	0.50	ND
Aroclor-1262	1	ug/l	0.50	ND
Aroclor-1268	1	ug/l	0.50	ND

Sample ID: Oull-C
Lab#: AD36716-009
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: Ouil-D
Lab#: AD36716-010
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: OU11-E
Lab#: AD36716-011
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: OU11-F
Lab#: AD36716-012
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	**1**	**ug/l**	**2.0**	**35**
Acenaphthene	**1**	**ug/l**	**2.0**	**13**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	**1**	**ug/l**	**2.0**	**2.8**
Fluorene	**1**	**ug/l**	**2.0**	**16**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**30**
Pyrene	**1**	**ug/l**	**2.0**	**4.4**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**4.9**
Chromium	**1**	**ug/l**	**2.0**	**3.0**
Copper	1	ug/l	10	ND
Lead	**1**	**ug/l**	**3.0**	**3.9**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**1**	**ug/l**	**1.0**	**3.5**
1,3,5-Trimethylbenzene	**1**	**ug/l**	**1.0**	**2.2**
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	**1**	**ug/l**	**1.0**	**1.4**
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	**1**	**ug/l**	**1.0**	**1.0**
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 1-2 **Collection Date:** 3/9/2023
Lab#: AD36716-014 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-2**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-014**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: VE 1-4 **Collection Date:** 3/9/2023
Lab#: AD36716-015 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	**1**	**ug/l**	**2.0**	**2.3**
Copper	**1**	**ug/l**	**10**	**16**
Lead	**1**	**ug/l**	**3.0**	**6.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-4**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-015**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene		1	ug/l	1.0	ND
o-Xylene		1	ug/l	1.0	ND
sec-Butylbenzene		1	ug/l	1.0	ND
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: VE 1-4 MS
Lab#: AD36716-016
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	41
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	98
Acenaphthylene	1	ug/l	2.0	95
Anthracene	1	ug/l	2.0	100
Benzo[a]anthracene	1	ug/l	2.0	96
Benzo[a]pyrene	1	ug/l	2.0	110
Benzo[b]fluoranthene	1	ug/l	2.0	110
Benzo[g,h,i]perylene	1	ug/l	2.0	96
Benzo[k]fluoranthene	1	ug/l	2.0	100
Chrysene	1	ug/l	2.0	98
Dibenzo[a,h]anthracene	1	ug/l	2.0	100
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	100
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	98
Naphthalene	1	ug/l	0.50	84
Phenanthrene	1	ug/l	2.0	99
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.4
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.7
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	460
Chromium	1	ug/l	2.0	460
Copper	1	ug/l	10	470
Lead	1	ug/l	3.0	420

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	15
1,3,5-Trimethylbenzene	1	ug/l	1.0	14
4-Isopropyltoluene	1	ug/l	1.0	14
Benzene	1	ug/l	0.50	15
Chlorobenzene	1	ug/l	1.0	14
Ethylbenzene	1	ug/l	1.0	14
Isopropylbenzene	1	ug/l	1.0	14
m&p-Xylenes	1	ug/l	1.0	29
Methyl-t-butyl ether	1	ug/l	0.87	29
Naphthalene	1	ug/l	1.0	14
n-Butylbenzene	1	ug/l	1.0	12
n-Propylbenzene	1	ug/l	1.0	14
o-Xylene	1	ug/l	1.0	14
sec-Butylbenzene	1	ug/l	1.0	13

Sample ID:	**VE 1-4 MS**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-016**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				

t-Butylbenzene	**1**	**ug/l**	**1.0**	**13**
Toluene	**1**	**ug/l**	**1.0**	**14**
Xylenes (Total)	**1**	**ug/l**	**1.0**	**43**

Sample ID: VE 1-4 MSD
Lab#: AD36716-017
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	44
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	95
Acenaphthylene	1	ug/l	2.0	92
Anthracene	1	ug/l	2.0	97
Benzo[a]anthracene	1	ug/l	2.0	95
Benzo[a]pyrene	1	ug/l	2.0	100
Benzo[b]fluoranthene	1	ug/l	2.0	100
Benzo[g,h,i]perylene	1	ug/l	2.0	94
Benzo[k]fluoranthene	1	ug/l	2.0	110
Chrysene	1	ug/l	2.0	93
Dibenzo[a,h]anthracene	1	ug/l	2.0	97
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	93
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	94
Naphthalene	1	ug/l	0.50	89
Phenanthrene	1	ug/l	2.0	97
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.2
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.4
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	450
Chromium	1	ug/l	2.0	450
Copper	1	ug/l	10	450
Lead	1	ug/l	3.0	410

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	17
1,3,5-Trimethylbenzene	1	ug/l	1.0	19
4-Isopropyltoluene	1	ug/l	1.0	18
Benzene	1	ug/l	0.50	19
Chlorobenzene	1	ug/l	1.0	19
Ethylbenzene	1	ug/l	1.0	17
Isopropylbenzene	1	ug/l	1.0	17
m&p-Xylenes	1	ug/l	1.0	35
Methyl-t-butyl ether	1	ug/l	0.87	36
Naphthalene	1	ug/l	1.0	15
n-Butylbenzene	1	ug/l	1.0	15
n-Propylbenzene	1	ug/l	1.0	19
o-Xylene	1	ug/l	1.0	18
sec-Butylbenzene	1	ug/l	1.0	18

Sample ID:	**VE 1-4 MSD**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-017**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene	**1**	**ug/l**	**1.0**	**16**	
Toluene	**1**	**ug/l**	**1.0**	**14**	
Xylenes (Total)	**1**	**ug/l**	**1.0**	**53**	

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-11 **Collection Date:** 3/9/2023
Lab#: AD36716-019 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 4-11**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-019**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene		1	ug/l	1.0	ND
o-Xylene		1	ug/l	1.0	ND
sec-Butylbenzene		1	ug/l	1.0	ND
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: 030923DUP
Lab#: AD36716-020
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**030923DUP**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-020**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene	1	ug/l	1.0	ND	
o-Xylene	1	ug/l	1.0	ND	
sec-Butylbenzene	1	ug/l	1.0	ND	
t-Butylbenzene	1	ug/l	1.0	ND	
Toluene	1	ug/l	1.0	ND	
Xylenes (Total)	1	ug/l	1.0	ND	

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Trip Blank
Lab#: AD36716-022
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 6M165207.D
Analysis Date: 03/14/23 23:40
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 6M165271.D
Analysis Date: 03/15/23 21:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	**1,2,4-Trimethylbenzene**	**1.0**	**3.5**	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**2.2**	**91-20-3**	**Naphthalene**	**1.0**	**1.0**
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	**Chlorobenzene**	**1.0**	**1.4**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 6M165267.D
Analysis Date: 03/15/23 20:07
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 6M165249.D
Analysis Date: 03/15/23 13:59
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 6M165240.D
Analysis Date: 03/15/23 10:54
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	15	1634-04-4	Methyl-t-butyl ether	0.87	29
108-67-8	1,3,5-Trimethylbenzene	1.0	14	91-20-3	Naphthalene	1.0	14
99-87-6	4-Isopropyltoluene	1.0	14	104-51-8	n-Butylbenzene	1.0	12
71-43-2	Benzene	0.50	15	103-65-1	n-Propylbenzene	1.0	14
108-90-7	Chlorobenzene	1.0	14	95-47-6	o-Xylene	1.0	14
100-41-4	Ethylbenzene	1.0	14	135-98-8	sec-Butylbenzene	1.0	13
98-82-8	Isopropylbenzene	1.0	14	98-06-6	t-Butylbenzene	1.0	13
79601-23-1	m&p-Xylenes	1.0	29	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	43				

Worksheet #: 682584

Total Target Concentration 250

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 6M165241.D
Analysis Date: 03/15/23 11:14
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	17	1634-04-4	Methyl-t-butyl ether	0.87	36
108-67-8	1,3,5-Trimethylbenzene	1.0	19	91-20-3	Naphthalene	1.0	15
99-87-6	4-Isopropyltoluene	1.0	18	104-51-8	n-Butylbenzene	1.0	15
71-43-2	Benzene	0.50	19	103-65-1	n-Propylbenzene	1.0	19
108-90-7	Chlorobenzene	1.0	19	95-47-6	o-Xylene	1.0	18
100-41-4	Ethylbenzene	1.0	17	135-98-8	sec-Butylbenzene	1.0	18
98-82-8	Isopropylbenzene	1.0	17	98-06-6	t-Butylbenzene	1.0	16
79601-23-1	m&p-Xylenes	1.0	35	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	53				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 6M165268.D
Analysis Date: 03/15/23 20:27
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 6M165269.D
Analysis Date: 03/15/23 20:47
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 6M165270.D
Analysis Date: 03/15/23 21:08
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 6M165318.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-022
Client Id: Trip Blank
Data File: 6M165319.D
Analysis Date: 03/16/23 13:48
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 5M123447.D
Analysis Date: 03/15/23 12:27
Date Rec/Extracted: 03/10/23-03/14/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**4.1**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**7.2**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**11**
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 5M123494.D
Analysis Date: 03/17/23 14:33
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	**2-Methylnaphthalene**	**2.0**	**35**	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**13**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.8**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**16**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**30**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**4.4**

Worksheet #: 682619

Total Target Concentration 100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 5M123495.D
Analysis Date: 03/17/23 14:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 5M123496.D
Analysis Date: 03/17/23 15:20
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 12M66150.D
Analysis Date: 03/17/23 12:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 5M123497.D
Analysis Date: 03/17/23 15:44
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	41	207-08-9	Benzo[k]fluoranthene	2.0	100
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	98
83-32-9	Acenaphthene	2.0	98	53-70-3	Dibenzo[a,h]anthracene	2.0	100
208-96-8	Acenaphthylene	2.0	95	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	100	86-73-7	Fluorene	2.0	100
56-55-3	Benzo[a]anthracene	2.0	96	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	98
50-32-8	Benzo[a]pyrene	2.0	110	91-20-3	Naphthalene	0.50	84
205-99-2	Benzo[b]fluoranthene	2.0	110	85-01-8	Phenanthrene	2.0	99
191-24-2	Benzo[g,h,i]perylene	2.0	96	129-00-0	Pyrene	2.0	100

Worksheet #: 682619 *Total Target Concentration* 1700 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 5M123498.D
Analysis Date: 03/17/23 16:07
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	44	207-08-9	Benzo[k]fluoranthene	2.0	110
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	93
83-32-9	Acenaphthene	2.0	95	53-70-3	Dibenzo[a,h]anthracene	2.0	97
208-96-8	Acenaphthylene	2.0	92	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	97	86-73-7	Fluorene	2.0	93
56-55-3	Benzo[a]anthracene	2.0	95	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	94
50-32-8	Benzo[a]pyrene	2.0	100	91-20-3	Naphthalene	0.50	89
205-99-2	Benzo[b]fluoranthene	2.0	100	85-01-8	Phenanthrene	2.0	97
191-24-2	Benzo[g,h,i]perylene	2.0	94	129-00-0	Pyrene	2.0	100

Worksheet #: 682619

Total Target Concentration 1700

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 5M123499.D
Analysis Date: 03/17/23 16:31
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 12M66151.D
Analysis Date: 03/17/23 13:19
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 5M123500.D
Analysis Date: 03/17/23 16:54
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 12M66152.D
Analysis Date: 03/17/23 13:40
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 5M123501.D
Analysis Date: 03/17/23 17:18
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 12M66153.D
Analysis Date: 03/17/23 14:02
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 5M123502.D
Analysis Date: 03/17/23 17:42
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 12M66154.D
Analysis Date: 03/17/23 14:23
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 2G173918.D
Analysis Date: 03/16/23 12:52
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-002(5X)
Client Id: VE 4-9
Data File: 3G145445.D
Analysis Date: 03/22/23 14:11
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 5
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	2.5	U	**11097-69-1**	**Aroclor-1254**	**2.5**	**52**
11104-28-2	Aroclor-1221	2.5	U	11096-82-5	Aroclor-1260	2.5	U
11141-16-5	Aroclor-1232	2.5	U	37324-23-5	Aroclor-1262	2.5	U
53469-21-9	Aroclor-1242	2.5	U	11100-14-4	Aroclor-1268	2.5	U
12672-29-6	Aroclor-1248	2.5	U	**1336-36-3**	**Aroclor (Total)**	**2.5**	**52**

KLC 03/23/23

Worksheet #: 682639 *Total Target Concentration* 52 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-003
Client Id: FA 4-9
Data File: 2G174184.D
Analysis Date: 03/22/23 10:52
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**30**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**30**

dlw
03/23/23

Worksheet #: 682639 *Total Target Concentration* 30 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-004(5X)
Client Id: VE 4-7
Data File: 2G173930.D
Analysis Date: 03/16/23 15:13
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**(^)Aroclor-1254**	**1.3**	**47**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**47**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-005
Client Id: FA 4-16
Data File: 2G174185.D
Analysis Date: 03/22/23 11:04
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**34**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**34**

dlw 03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-006
Client Id: PGW-2
Data File: 2G174186.D
Analysis Date: 03/22/23 11:15
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**4.7**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**4.7**

Worksheet #: 682637

Total Target Concentration 4.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-007(5X)
Client Id: Oull-A
Data File: 2G173931.D
Analysis Date: 03/16/23 15:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**33**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**33**

dhc
03/22/23

Worksheet #: 682654 *Total Target Concentration* 33 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-008
Client Id: Oull-B
Data File: 2G173921.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**7**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**7.0**

kmc
03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-009
Client Id: Oull-C
Data File: 2G173922.D
Analysis Date: 03/16/23 13:39
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-010
Client Id: Oull-D
Data File: 2G174187.D
Analysis Date: 03/22/23 11:27
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**2.3**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**2.3**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-011
Client Id: OU11-E
Data File: 2G173923.D
Analysis Date: 03/16/23 13:51
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-012
Client Id: OU11-F
Data File: 2G173924.D
Analysis Date: 03/16/23 14:03
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**7.5**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**7.5**

Worksheet #: 682642

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 3G145252.D
Analysis Date: 03/16/23 15:35
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 2G173926.D
Analysis Date: 03/16/23 14:26
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 2G173917.D
Analysis Date: 03/16/23 12:41
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 2G173915.D
Analysis Date: 03/16/23 12:17
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.4**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.7**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 2G173916.D
Analysis Date: 03/16/23 12:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.2**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.4**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

Worksheet #: 682642

Total Target Concentration 6.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 3G145253.D
Analysis Date: 03/16/23 15:47
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 3G145254.D
Analysis Date: 03/16/23 15:58
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 2G174082.D
Analysis Date: 03/20/23 17:42
Date Rec/Extracted: 03/10/23-03/17/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682641

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	9.4	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-47-3	Chromium	2.0	4.9	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-013	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 3-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	3.0	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7439-92-1	Lead	3.0	3.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-014	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-015	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-47-3	Chromium	2.0	2.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-50-8	Copper	10	16	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7439-92-1	Lead	3.0	6.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-016	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-47-3	Chromium	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-50-8	Copper	10	470	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7439-92-1	Lead	3.0	420	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-017	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-47-3	Chromium	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-50-8	Copper	10	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7439-92-1	Lead	3.0	410	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-018	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-021	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923 EB	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-020	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923DUP	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/16/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M165184.D	DAILY BLANK	A	03/14/23 15:50	1		114	101	90	104		
6M165221.D	DAILY BLANK	A	03/15/23 04:26	1		115	104	88	106		
6M165260.D	DAILY BLANK	A	03/15/23 17:43	1		112	106	86	101		
6M165303.D	DAILY BLANK	A	03/16/23 08:22	1		108	105	111	105		
6M165207.D	AD36716-001	A	03/14/23 23:40	1		114	102	91	101		
6M165271.D	AD36716-013	A	03/15/23 21:28	1		110	101	89	97		
6M165267.D	AD36716-014	A	03/15/23 20:07	1		112	110	91	102		
6M165249.D	AD36716-015	A	03/15/23 13:59	1		112	104	90	94		
6M165240.D	AD36716-016(MS:AD36	A	03/15/23 10:54	1		100	93	94	107		
6M165241.D	AD36716-017(MSD:AD3	A	03/15/23 11:14	1		100	94	79	104		
6M165268.D	AD36716-018	A	03/15/23 20:27	1		113	102	93	97		
6M165269.D	AD36716-019	A	03/15/23 20:47	1		115	103	90	112		
6M165270.D	AD36716-020	A	03/15/23 21:08	1		111	99	89	112		
6M165318.D	AD36716-021	A	03/16/23 13:28	1		110	101	85	106		
6M165319.D	AD36716-022	A	03/16/23 13:48	1		112	103	87	107		
6M165186.D	AD36652-009	A	03/14/23 16:30	1		111	103	89	105		
6M165187.D	MBS107539	A	03/14/23 16:51	1		131	100	96	105		
6M165191.D	AD36652-012(MS:AD36	A	03/14/23 18:13	1		102	93	80	106		
6M165192.D	AD36652-013(MSD:AD3	A	03/14/23 18:33	1		100	91	96	105		
6M165229.D	MBS107544	A	03/15/23 07:09	1		106	91	97	96		
6M165272.D	AD36698-021(50X)(T)	A	03/15/23 21:49	1		99	97	96	106		
6M165285.D	MBS107552	A	03/16/23 02:14	1		103	91	93	108		
6M165286.D	AD36698-021(50X)(T:M	A	03/16/23 02:35	1		109	92	90	104		
6M165287.D	AD36698-021(50X)(T:M	A	03/16/23 02:56	1		107	95	89	104		
6M165313.D	MBS107558	A	03/16/23 11:46	1		101	94	94	106		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165229.D	MBS107544	3/15/2023 7:09:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.3975	0	20	72	50	150
Dichlorodifluoromethane	1	6.6241	0	20	33*	50	150
Chloromethane	1	10.2612	0	20	51	50	150
Bromomethane	1	18.1595	0	20	91	50	150
Vinyl Chloride	1	14.5793	0	20	73	50	150
Chloroethane	1	19.7635	0	20	99	50	150
Trichlorofluoromethane	1	21.5473	0	20	108	50	150
Ethyl ether	1	22.2559	0	20	111	50	150
Furan	1	23.2469	0	20	116	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.1563	0	20	161*	50	150
Methylene Chloride	1	16.1192	0	20	81	70	130
Acrolein	1	175.8832	0	100	176*	50	150
Acrylonitrile	1	26.3947	0	20	132	50	150
Iodomethane	1	10.52	0	20	53	50	150
Acetone	1	118.3247	0	100	118	50	150
Carbon Disulfide	1	14.8928	0	20	74	50	150
t-Butyl Alcohol	1	163.3593	0	100	163*	50	150
n-Hexane	1	28.6982	0	20	143*	70	130
Di-isopropyl-ether	1	30.267	0	20	151*	70	130
1,1-Dichloroethene	1	15.6548	0	20	78	70	130
Methyl Acetate	1	21.4558	0	20	107	50	150
Methyl-t-butyl ether	**1**	**32.7342**	**0**	**20**	**164***	**70**	**130**
1,1-Dichloroethane	1	15.7757	0	20	79	70	130
trans-1,2-Dichloroethene	1	17.076	0	20	85	70	130
Ethyl-t-butyl ether	1	16.3869	0	20	82	70	130
cis-1,2-Dichloroethene	1	16.0706	0	20	80	70	130
Bromochloromethane	1	15.0441	0	20	75	70	130
2,2-Dichloropropane	1	16.8812	0	20	84	70	130
Ethyl acetate	1	13.2934	0	20	66	50	150
1,4-Dioxane	1	1975.576	0	1000	198*	50	150
1,1-Dichloropropene	1	17.9222	0	20	90	70	130
Chloroform	1	17.3594	0	20	87	70	130
Cyclohexane	1	32.1782	0	20	161*	70	130
1,2-Dichloroethane	1	16.8988	0	20	84	70	130
2-Butanone	1	16.6036	0	20	83	50	150
1,1,1-Trichloroethane	1	18.3368	0	20	92	70	130
Carbon Tetrachloride	1	18.8395	0	20	94	50	150
Vinyl Acetate	1	22.9765	0	20	115	50	150
Bromodichloromethane	1	17.4585	0	20	87	70	130
Methylcyclohexane	1	33.9793	0	20	170*	70	130
Dibromomethane	1	18.5642	0	20	93	70	130
1,2-Dichloropropane	1	16.658	0	20	83	70	130
Trichloroethene	1	18.85	0	20	94	70	130
Benzene	**1**	**17.5962**	**0**	**20**	**88**	**70**	**130**
tert-Amyl methyl ether	1	17.2067	0	20	86	70	130
Iso-propylacetate	1	12.6797	0	20	63*	70	130
Methyl methacrylate	1	13.7796	0	20	69*	70	130
Dibromochloromethane	1	16.3542	0	20	82	70	130
2-Chloroethylvinylether	1	13.1114	0	20	66*	70	130
cis-1,3-Dichloropropene	1	14.7639	0	20	74	70	130
trans-1,3-Dichloropropene	1	14.9852	0	20	75	70	130
Ethyl methacrylate	1	13.568	0	20	68*	70	130
1,1,2-Trichloroethane	1	15.3028	0	20	77	70	130
1,2-Dibromoethane	1	15.0608	0	20	75	70	130
1,3-Dichloropropane	1	14.5106	0	20	73	70	130
4-Methyl-2-Pentanone	1	12.393	0	20	62	50	150
2-Hexanone	1	12.101	0	20	61	50	150
Tetrachloroethene	1	17.4924	0	20	87	50	150
Toluene	**1**	**16.1222**	**0**	**20**	**81**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.051	0	20	85	70	130
Chlorobenzene	**1**	**16.7393**	**0**	**20**	**84**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	12.2298	0	20	61*	70	130
n-Amyl acetate	1	10.599	0	20	53*	70	130
Bromoform	1	13.8188	0	20	69*	70	130
Ethylbenzene	**1**	**12.4287**	**0**	**20**	**62***	**70**	**130**
1,1,2,2-Tetrachloroethane	1	13.1687	0	20	66*	70	130
Styrene	1	14.8433	0	20	74	70	130
m&p-Xylenes	**1**	**25.9764**	**0**	**40**	**65***	**70**	**130**
o-Xylene	**1**	**14.8283**	**0**	**20**	**74**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	23.9879	0	20	120	50	150
1,3-Dichlorobenzene	1	16.0787	0	20	80	70	130
1,4-Dichlorobenzene	1	16.1492	0	20	81	70	130
1,2-Dichlorobenzene	1	15.8058	0	20	79	70	130
Isopropylbenzene	**1**	**15.3864**	**0**	**20**	**77**	**70**	**130**
Cyclohexanone	1	129.8696	0	100	130	50	150
Camphene	1	16.5091	0	20	83	70	130
1,2,3-Trichloropropane	1	16.6952	0	20	83	70	130
2-Chlorotoluene	1	15.3073	0	20	77	70	130
p-Ethyltoluene	1	15.479	0	20	77	70	130
4-Chlorotoluene	1	15.5731	0	20	78	70	130
n-Propylbenzene	**1**	**16.4029**	**0**	**20**	**82**	**70**	**130**
Bromobenzene	1	15.5651	0	20	78	70	130
1,3,5-Trimethylbenzene	**1**	**16.009**	**0**	**20**	**80**	**70**	**130**
Butyl methacrylate	1	13.9094	0	20	70	70	130
t-Butylbenzene	**1**	**16.9045**	**0**	**20**	**85**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**16.6028**	**0**	**20**	**83**	**70**	**130**
sec-Butylbenzene	**1**	**17.7175**	**0**	**20**	**89**	**70**	**130**
4-Isopropyltoluene	**1**	**16.9583**	**0**	**20**	**85**	**70**	**130**
n-Butylbenzene	**1**	**16.805**	**0**	**20**	**84**	**70**	**130**
p-Diethylbenzene	1	11.8075	0	20	59*	70	130
1,2,4,5-Tetramethylbenzene	1	13.6476	0	20	68*	70	130
1,2-Dibromo-3-Chloropropane	1	12.6137	0	20	63	50	150
Camphor	1	110.4953	0	200	55	20	150
Hexachlorobutadiene	1	13.2584	0	20	66	50	150
1,2,4-Trichlorobenzene	1	12.5214	0	20	63*	70	130
1,2,3-Trichlorobenzene	1	12.1636	0	20	61*	70	130
Naphthalene	**1**	**8.7893**	**0**	**20**	**44***	**50**	**150**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107552

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.3791	0	20	82	70	130
n-Amyl acetate	1	13.5355	0	20	68*	70	130
Bromoform	1	18.8094	0	20	94	70	130
Ethylbenzene	**1**	**19.2521**	**0**	**20**	**96**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	15.8221	0	20	79	70	130
Styrene	1	20.7394	0	20	104	70	130
m&p-Xylenes	**1**	**42.0353**	**0**	**40**	**105**	**70**	**130**
o-Xylene	**1**	**19.7631**	**0**	**20**	**99**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	17.0738	0	20	85	50	150
1,3-Dichlorobenzene	1	19.3352	0	20	97	70	130
1,4-Dichlorobenzene	1	19.768	0	20	99	70	130
1,2-Dichlorobenzene	1	18.8267	0	20	94	70	130
Isopropylbenzene	**1**	**20.5301**	**0**	**20**	**103**	**70**	**130**
Cyclohexanone	1	525.8372	0	100	526*	50	150
Camphene	1	20.3189	0	20	102	70	130
1,2,3-Trichloropropane	1	15.6934	0	20	78	70	130
2-Chlorotoluene	1	21.0741	0	20	105	70	130
p-Ethyltoluene	1	51.0875	0	20	255*	70	130
4-Chlorotoluene	1	19.2049	0	20	96	70	130
n-Propylbenzene	**1**	**20.1412**	**0**	**20**	**101**	**70**	**130**
Bromobenzene	1	17.6731	0	20	88	70	130
1,3,5-Trimethylbenzene	**1**	**76.5656**	**0**	**20**	**383***	**70**	**130**
Butyl methacrylate	1	16.0338	0	20	80	70	130
t-Butylbenzene	**1**	**20.5706**	**0**	**20**	**103**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**21.5783**	**0**	**20**	**108**	**70**	**130**
sec-Butylbenzene	**1**	**20.8948**	**0**	**20**	**104**	**70**	**130**
4-Isopropyltoluene	**1**	**21.4926**	**0**	**20**	**107**	**70**	**130**
n-Butylbenzene	**1**	**25.5512**	**0**	**20**	**128**	**70**	**130**
p-Diethylbenzene	1	41.9495	0	20	210*	70	130
1,2,4,5-Tetramethylbenzene	1	76.5664	0	20	383*	70	130
1,2-Dibromo-3-Chloropropane	1	16.7162	0	20	84	50	150
Camphor	1	197.4855	0	200	99	20	150
Hexachlorobutadiene	1	20.4221	0	20	102	50	150
1,2,4-Trichlorobenzene	1	19.5486	0	20	98	70	130
1,2,3-Trichlorobenzene	1	19.2896	0	20	96	70	130
Naphthalene	**1**	**14.9838**	**0**	**20**	**75**	**50**	**150**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165240.D	AD36716-016(MS:AD36716-015	3/15/2023 10:54:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.6035	0	20	58	50	150
Dichlorodifluoromethane	1	4.1957	0	20	21*	50	150
Chloromethane	1	9.1034	0	20	46*	50	150
Bromomethane	1	15.294	0	20	76	50	150
Vinyl Chloride	1	12.252	0	20	61	50	150
Chloroethane	1	14.8368	0	20	74	50	150
Trichlorofluoromethane	1	18.1046	0	20	91	50	150
Ethyl ether	1	20.0645	0	20	100	50	150
Furan	1	20.1708	0	20	101	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	31.7614	0	20	159*	50	150
Methylene Chloride	1	13.9181	0	20	70	70	130
Acrolein	1	168.1862	0	100	168*	50	150
Acrylonitrile	1	22.6595	0	20	113	50	150
Iodomethane	1	10.0387	0	20	50	50	150
Acetone	1	119.1982	0	100	119	50	150
Carbon Disulfide	1	13.1789	0	20	66	50	150
t-Butyl Alcohol	1	192.3124	0	100	192*	50	150
n-Hexane	1	23.1827	0	20	116	70	130
Di-isopropyl-ether	1	26.1297	0	20	131*	70	130
1,1-Dichloroethene	1	14.7844	0	20	74	70	130
Methyl Acetate	1	21.148	0	20	106	50	150
Methyl-t-butyl ether	**1**	**29.3749**	**0**	**20**	**147***	**70**	**130**
1,1-Dichloroethane	1	13.9648	0	20	70	70	130
trans-1,2-Dichloroethene	1	14.5114	0	20	73	70	130
Ethyl-t-butyl ether	1	14.8595	0	20	74	70	130
cis-1,2-Dichloroethene	1	13.2246	0	20	66*	70	130
Bromochloromethane	1	12.9272	0	20	65*	70	130
2,2-Dichloropropane	1	13.865	0	20	69*	70	130
Ethyl acetate	1	10.5179	0	20	53	50	150
1,4-Dioxane	1	2861.114	0	1000	286*	50	150
1,1-Dichloropropene	1	14.8193	0	20	74	70	130
Chloroform	1	14.5189	0	20	73	70	130
Cyclohexane	1	27.6507	0	20	138*	70	130
1,2-Dichloroethane	1	14.5035	0	20	73	70	130
2-Butanone	1	16.2886	0	20	81	50	150
1,1,1-Trichloroethane	1	15.3653	0	20	77	70	130
Carbon Tetrachloride	1	16.0317	0	20	80	50	150
Vinyl Acetate	1	20.8191	0	20	104	50	150
Bromodichloromethane	1	14.4888	0	20	72	70	130
Methylcyclohexane	1	27.0932	0	20	135*	70	130
Dibromomethane	1	15.6668	0	20	78	70	130
1,2-Dichloropropane	1	13.9881	0	20	70	70	130
Trichloroethene	1	15.5814	0	20	78	70	130
Benzene	**1**	**15.1227**	**0**	**20**	**76**	**70**	**130**
tert-Amyl methyl ether	1	14.9574	0	20	75	70	130
Iso-propylacetate	1	12.3228	0	20	62*	70	130
Methyl methacrylate	1	11.6766	0	20	58*	70	130
Dibromochloromethane	1	13.4965	0	20	67*	70	130
2-Chloroethylvinylether	1	11.0386	0	20	55*	70	130
cis-1,3-Dichloropropene	1	12.1886	0	20	61*	70	130
trans-1,3-Dichloropropene	1	12.4407	0	20	62*	70	130
Ethyl methacrylate	1	12.6236	0	20	63*	70	130
1,1,2-Trichloroethane	1	13.1534	0	20	66*	70	130
1,2-Dibromoethane	1	13.1559	0	20	66*	70	130
1,3-Dichloropropane	1	12.407	0	20	62*	70	130
4-Methyl-2-Pentanone	1	12.0822	0	20	60	50	150
2-Hexanone	1	12.5599	0	20	63	50	150
Tetrachloroethene	1	14.4092	0	20	72	50	150
Toluene	**1**	**13.6016**	**0**	**20**	**68***	**70**	**130**
1,1,1,2-Tetrachloroethane	1	14.1356	0	20	71	70	130
Chlorobenzene	**1**	**13.862**	**0**	**20**	**69***	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165241.D	AD36716-017(MSD:AD36716-0	3/15/2023 11:14:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.2374	0	20	71	50	150
Dichlorodifluoromethane	1	6.1724	0	20	31*	50	150
Chloromethane	1	11.4594	0	20	57	50	150
Bromomethane	1	18.0707	0	20	90	50	150
Vinyl Chloride	1	15.7349	0	20	79	50	150
Chloroethane	1	20.2381	0	20	101	50	150
Trichlorofluoromethane	1	20.8242	0	20	104	50	150
Ethyl ether	1	22.0086	0	20	110	50	150
Furan	1	19.3822	0	20	97	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8635	0	20	164*	50	150
Methylene Chloride	1	17.3547	0	20	87	70	130
Acrolein	1	130.2965	0	100	130	50	150
Acrylonitrile	1	27.9639	0	20	140	50	150
Iodomethane	1	13.9991	0	20	70	50	150
Acetone	1	136.1676	0	100	136	50	150
Carbon Disulfide	1	15.757	0	20	79	50	150
t-Butyl Alcohol	1	217.5669	0	100	218*	50	150
n-Hexane	1	27.5738	0	20	138*	70	130
Di-isopropyl-ether	1	32.4273	0	20	162*	70	130
1,1-Dichloroethene	1	16.1662	0	20	81	70	130
Methyl Acetate	1	25.104	0	20	126	50	150
Methyl-t-butyl ether	**1**	**35.6281**	**0**	**20**	**178***	**70**	**130**
1,1-Dichloroethane	1	16.5414	0	20	83	70	130
trans-1,2-Dichloroethene	1	18.0203	0	20	90	70	130
Ethyl-t-butyl ether	1	18.3055	0	20	92	70	130
cis-1,2-Dichloroethene	1	16.354	0	20	82	70	130
Bromochloromethane	1	15.6474	0	20	78	70	130
2,2-Dichloropropane	1	16.3989	0	20	82	70	130
Ethyl acetate	1	13.1581	0	20	66	50	150
1,4-Dioxane	1	2837.656	0	1000	284*	50	150
1,1-Dichloropropene	1	17.7191	0	20	89	70	130
Chloroform	1	17.735	0	20	89	70	130
Cyclohexane	1	32.5525	0	20	163*	70	130
1,2-Dichloroethane	1	17.2424	0	20	86	70	130
2-Butanone	1	17.847	0	20	89	50	150
1,1,1-Trichloroethane	1	18.8334	0	20	94	70	130
Carbon Tetrachloride	1	19.1762	0	20	96	50	150
Vinyl Acetate	1	25.3452	0	20	127	50	150
Bromodichloromethane	1	18.1035	0	20	91	70	130
Methylcyclohexane	1	32.9319	0	20	165*	70	130
Dibromomethane	1	19.7523	0	20	99	70	130
1,2-Dichloropropane	1	17.295	0	20	86	70	130
Trichloroethene	1	19.3559	0	20	97	70	130
Benzene	**1**	**18.7052**	**0**	**20**	**94**	**70**	**130**
tert-Amyl methyl ether	1	18.2643	0	20	91	70	130
Iso-propylacetate	1	12.5492	0	20	63*	70	130
Methyl methacrylate	1	12.1399	0	20	61*	70	130
Dibromochloromethane	1	14.4615	0	20	72	70	130
2-Chloroethylvinylether	1	12.1315	0	20	61*	70	130
cis-1,3-Dichloropropene	1	13.3784	0	20	67*	70	130
trans-1,3-Dichloropropene	1	13.2302	0	20	66*	70	130
Ethyl methacrylate	1	13.172	0	20	66*	70	130
1,1,2-Trichloroethane	1	13.7055	0	20	69*	70	130
1,2-Dibromoethane	1	13.9032	0	20	70	70	130
1,3-Dichloropropane	1	13.2052	0	20	66*	70	130
4-Methyl-2-Pentanone	1	12.9983	0	20	65	50	150
2-Hexanone	1	12.7697	0	20	64	50	150
Tetrachloroethene	1	15.2598	0	20	76	50	150
Toluene	**1**	**14.3538**	**0**	**20**	**72**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.752	0	20	89	70	130
Chlorobenzene	**1**	**18.8148**	**0**	**20**	**94**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165218.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 3:25:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	12.60	20	20		0.198	0.125	37.01	C1
cis-1,3-Dichloropropene	1	0		5.82	12.74	20	20	0.2	0.724	0.461	36.28	C1
trans-1,3-Dichloropropene	1	0		6.10	12.97	20	20	0.1	0.611	0.396	35.17	C1
Ethyl methacrylate	1	0		6.12	11.93	20	20	0.5	0.302	0.180	40.34	C1
1,1,2-Trichloroethane	1	0		6.21	16.02	20	20	0.1	0.460	0.368	19.92	
1,2-Dibromoethane	1	0		6.51	16.33	20	20	0.1	0.472	0.385	18.34	
1,3-Dichloropropane	1	0		6.31	16.55	20	20		0.743	0.615	17.23	
4-Methyl-2-Pentanone	1	0		5.89	12.50	20	20	0.1	0.293	0.183	37.49	C1
2-Hexanone	1	0		6.32	16.63	20	20	0.1	0.192	0.160	16.86	
Tetrachloroethene	1	0		6.31	17.43	20	20	0.2	0.426	0.371	12.84	
Toluene-d8	1	0	S	5.98	22.92	30	**		1.126	0.861	23.60	
Toluene	1	0		6.01	14.03	20	20	0.4	1.154	0.809	29.87	C1
1,1,1,2-Tetrachloroethane	1	0		6.80	17.70	20	20		0.485	0.430	11.49	
Chlorobenzene	1	0		6.77	17.38	20	20	0.5	1.315	1.142	13.10	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.30	20	20	0.5	1.289	1.051	18.49	
n-Amyl acetate	1	0		7.13	17.20	20	20	0.5	1.030	1.052	13.99	
Bromoform	1	0		7.22	17.60	20	20	0.1	0.701	0.617	11.98	
Ethylbenzene	1	0		6.81	18.68	20	20	0.1	0.971	0.907	6.59	
1,1,2,2-Tetrachloroethane	1	0		7.43	16.89	20	20	0.1	1.053	0.889	15.57	
Bromofluorobenzene	1	0	S	7.38	32.70	30	**		0.757	0.825	9.00	
Styrene	1	0		7.09	18.37	20	20	0.3	2.303	2.116	8.13	
m&p-Xylenes	1	0		6.87	38.87	40	20	0.1	1.336	1.298	2.82	
o-Xylene	1	0		7.09	17.87	20	20	0.3	1.439	1.286	10.66	
trans-1,4-Dichloro-2-butene	1	0		7.46	16.35	20	20		0.293	0.239	18.26	
1,3-Dichlorobenzene	1	0		8.01	17.80	20	20	0.6	1.818	1.618	10.98	
1,4-Dichlorobenzene	1	0		8.06	16.99	20	20	0.5	1.833	1.557	15.05	
1,2-Dichlorobenzene	1	0		8.28	14.90	20	20	0.4	1.739	1.296	25.49	C1
Isopropylbenzene	1	0		7.28	19.07	20	20	0.1	3.325	3.170	4.66	
Cyclohexanone	1	0		7.35	115.87	100	20		0.008	0.007	15.87	
Camphene	1	0		7.46	17.93	20	20		0.828	0.743	10.36	
1,2,3-Trichloropropane	1	0		7.47	17.65	20	20		1.173	1.035	11.75	
2-Chlorotoluene	1	0		7.58	19.37	20	20		2.119	2.052	3.17	
p-Ethyltoluene	1	0		7.57	18.01	20	20		3.491	3.144	9.94	
4-Chlorotoluene	1	0		7.63	18.13	20	20		2.076	1.881	9.37	
n-Propylbenzene	1	0		7.51	20.29	20	20		3.757	3.813	1.46	
Bromobenzene	1	0		7.48	18.64	20	20		2.054	1.914	6.81	
1,3,5-Trimethylbenzene	1	0		7.60	18.25	20	20		2.329	2.125	8.77	
Butyl methacrylate	1	0		7.60	16.10	20	20	0.5	0.764	0.615	19.49	
t-Butylbenzene	1	0		7.79	18.15	20	20		2.588	2.349	9.26	
1,2,4-Trimethylbenzene	1	0		7.82	18.43	20	20		2.527	2.328	7.86	
sec-Butylbenzene	1	0		7.92	20.96	20	20		3.047	3.193	4.82	
4-Isopropyltoluene	1	0		7.99	18.59	20	20		2.558	2.377	7.04	
n-Butylbenzene	1	0		8.23	14.34	20	20		2.616	1.875	28.31	C1
p-Diethylbenzene	1	0		8.21	11.23	20	20		1.517	1.092	43.83	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.06	20	20		1.406	1.129	19.69	
1,2-Dibromo-3-Chloropropane	1	0		8.73	14.64	20	20	0.05	0.225	0.165	26.81	C1
Camphor	1	0		9.16	181.74	200	20		0.054	0.044	9.13	
Hexachlorobutadiene	1	0		9.31	15.97	20	20		0.348	0.278	20.13	
1,2,4-Trichlorobenzene	1	0		9.23	16.16	20	20	0.2	0.891	0.720	19.20	
1,2,3-Trichlorobenzene	1	0		9.52	15.38	20	20		0.753	0.579	23.12	C1
Naphthalene	1	0		9.38	11.67	20	20		1.954	1.385	41.67	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	12.32	20	20	0.1	0.425	0.262	38.41	C1
Dichlorodifluoromethane	1	0		1.64	7.91	20	20	0.1	0.171	0.068	60.45	C1
Chloromethane	1	0		1.82	16.16	20	20	0.1	0.284	0.229	19.22	
Bromomethane	1	0		2.23	16.68	20	20	0.1	0.281	0.235	16.59	
Vinyl Chloride	1	0		1.92	17.84	20	20	0.1	0.359	0.321	10.78	
Chloroethane	1	0		2.32	17.87	20	20	0.1	0.253	0.226	10.63	
Trichlorofluoromethane	1	0		2.56	20.55	20	20	0.1	0.532	0.547	2.73	
Ethyl ether	1	0		2.80	17.48	20	20	0.5	0.336	0.294	12.61	
Furan	1	0		2.84	17.75	20	20	0.5	0.475	0.422	11.24	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	35.09	20	20	0.1	0.338	0.593	75.43	C1
Methylene Chloride	1	0		3.42	16.63	20	20	0.1	0.425	0.353	16.87	
Acrolein	1	0		2.91	117.59	100	20		0.049	0.058	17.59	
Acrylonitrile	1	0		3.62	23.96	20	20		0.123	0.147	19.78	
Iodomethane	1	0		3.15	10.98	20	20		0.520	0.285	45.11	C1
Acetone	1	0		3.04	140.97	100	20	0.1	0.062	0.087	40.97	C1
Carbon Disulfide	1	0		3.23	16.04	20	20	0.1	1.043	0.837	19.78	
t-Butyl Alcohol	1	0		3.49	193.03	100	20		0.015	0.029	93.03	C1
n-Hexane	1	0		3.90	34.36	20	20		0.332	0.571	71.78	C1
Di-isopropyl-ether	1	0		4.06	31.45	20	20		0.968	1.522	57.24	C1
1,1-Dichloroethene	1	0		3.01	16.37	20	20	0.1	0.489	0.400	18.15	
Methyl Acetate	1	0		3.32	23.59	20	20	0.1	0.266	0.314	17.94	
Methyl-t-butyl ether	1	0		3.66	34.43	20	20	0.1	0.916	1.577	72.16	C1
1,1-Dichloroethane	1	0		4.01	16.14	20	20	0.2	0.650	0.525	19.30	
trans-1,2-Dichloroethene	1	0		3.67	17.16	20	20	0.1	0.417	0.358	14.23	
Ethyl-t-butyl ether	1	0		4.32	17.48	20	20	0.5	0.890	0.778	12.58	
cis-1,2-Dichloroethene	1	0		4.43	16.97	20	20	0.1	0.587	0.498	15.14	
Bromochloromethane	1	0		4.58	18.00	20	20		0.280	0.252	9.99	
2,2-Dichloropropane	1	0		4.43	20.90	20	20		0.405	0.423	4.48	
Ethyl acetate	1	0		4.45	16.81	20	20		0.301	0.253	15.94	
1,4-Dioxane	1	0		5.51	2399.59	1000	20		0.001	0.002	139.96	C1
1,1-Dichloropropene	1	0		4.84	18.13	20	20		0.496	0.449	9.33	
Chloroform	1	0		4.62	17.28	20	20	0.2	0.697	0.602	13.61	
Dibromofluoromethane	1	0	S	4.72	28.75	30	**		0.286	0.274	4.16	
Cyclohexane	1	0		4.79	34.20	20	20	0.1	0.470	0.803	70.98	C1
1,2-Dichloroethane-d4	1	0	S	4.92	25.61	30	**		0.131	0.112	14.64	
1,2-Dichloroethane	1	0		4.96	17.77	20	20	0.1	0.442	0.393	11.15	
2-Butanone	1	0		4.42	20.78	20	20	0.1	0.106	0.110	3.90	
1,1,1-Trichloroethane	1	0		4.75	19.03	20	20	0.1	0.580	0.552	4.83	
Carbon Tetrachloride	1	0		4.85	19.59	20	20	0.1	0.528	0.517	2.04	
Vinyl Acetate	1	0		4.05	23.90	20	20		0.787	0.941	19.52	
Bromodichloromethane	1	0		5.58	21.03	20	20	0.2	0.536	0.563	5.16	
Methylcyclohexane	1	0		5.44	34.51	20	20	0.1	0.497	0.858	72.53	C1
Dibromomethane	1	0		5.51	22.17	20	20		0.312	0.346	10.83	
1,2-Dichloropropane	1	0		5.45	16.10	20	20	0.1	0.390	0.314	19.50	
Trichloroethene	1	0		5.32	19.10	20	20	0.2	0.467	0.446	4.51	
Benzene	1	0		4.97	18.11	20	20	0.5	1.527	1.383	9.43	
tert-Amyl methyl ether	1	0		5.01	18.11	20	20		0.903	0.818	9.44	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	12.44	20	20	0.5	0.613	0.381	37.82	C1
Methyl methacrylate	1	0		5.47	18.99	20	20	0.5	0.282	0.268	5.03	
Dibromochloromethane	1	0		6.43	16.98	20	20	0.1	0.561	0.477	15.09	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	15.19	20	20		0.198	0.150	24.05	C1
cis-1,3-Dichloropropene	1	0		5.82	16.20	20	20	0.2	0.724	0.586	19.02	
trans-1,3-Dichloropropene	1	0		6.10	16.46	20	20	0.1	0.611	0.503	17.68	
Ethyl methacrylate	1	0		6.12	16.78	20	20	0.5	0.302	0.253	16.09	
1,1,2-Trichloroethane	1	0		6.21	16.25	20	20	0.1	0.460	0.374	18.73	
1,2-Dibromoethane	1	0		6.51	16.60	20	20	0.1	0.472	0.392	17.00	
1,3-Dichloropropane	1	0		6.31	16.23	20	20		0.743	0.603	18.87	
4-Methyl-2-Pentanone	1	0		5.89	16.66	20	20	0.1	0.293	0.244	16.71	
2-Hexanone	1	0		6.32	16.90	20	20	0.1	0.192	0.162	15.50	
Tetrachloroethene	1	0		6.31	17.65	20	20	0.2	0.426	0.376	11.73	
Toluene-d8	1	0	S	5.98	27.07	30	**		1.126	1.017	9.75	
Toluene	1	0		6.01	16.23	20	20	0.4	1.154	0.936	18.87	
1,1,1,2-Tetrachloroethane	1	0		6.80	17.24	20	20		0.485	0.418	13.80	
Chlorobenzene	1	0		6.77	17.83	20	20	0.5	1.315	1.172	10.85	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	17.55	20	20	0.5	1.289	1.131	12.25	
n-Amyl acetate	1	0		7.12	16.26	20	20	0.5	1.030	0.994	18.72	
Bromoform	1	0		7.21	17.14	20	20	0.1	0.701	0.601	14.28	
Ethylbenzene	1	0		6.81	15.75	20	20	0.1	0.971	0.765	21.27	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.00	20	20	0.1	1.053	0.842	20.01	
Bromofluorobenzene	1	0	S	7.38	31.13	30	**		0.757	0.786	3.78	
Styrene	1	0		7.09	18.78	20	20	0.3	2.303	2.163	6.11	
m&p-Xylenes	1	0		6.87	35.78	40	20	0.1	1.336	1.195	10.55	
o-Xylene	1	0		7.09	18.88	20	20	0.3	1.439	1.358	5.61	
trans-1,4-Dichloro-2-butene	1	0		7.46	23.36	20	20		0.293	0.342	16.80	
1,3-Dichlorobenzene	1	0		8.01	16.65	20	20	0.6	1.818	1.513	16.75	
1,4-Dichlorobenzene	1	0		8.06	18.62	20	20	0.5	1.833	1.707	6.91	
1,2-Dichlorobenzene	1	0		8.28	16.54	20	20	0.4	1.739	1.438	17.32	
Isopropylbenzene	1	0		7.28	18.40	20	20	0.1	3.325	3.059	7.99	
Cyclohexanone	1	0		7.35	226.67	100	20		0.008	0.014	126.67	C1
Camphene	1	0		7.46	17.79	20	20		0.828	0.737	11.07	
1,2,3-Trichloropropane	1	0		7.47	19.23	20	20		1.173	1.128	3.83	
2-Chlorotoluene	1	0		7.58	16.83	20	20		2.119	1.783	15.84	
p-Ethyltoluene	1	0		7.57	17.35	20	20		3.491	3.028	13.26	
4-Chlorotoluene	1	0		7.63	16.73	20	20		2.076	1.736	16.37	
n-Propylbenzene	1	0		7.51	17.55	20	20		3.757	3.297	12.25	
Bromobenzene	1	0		7.48	17.07	20	20		2.054	1.754	14.63	
1,3,5-Trimethylbenzene	1	0		7.60	17.45	20	20		2.329	2.033	12.74	
Butyl methacrylate	1	0		7.60	16.48	20	20	0.5	0.764	0.630	17.58	
t-Butylbenzene	1	0		7.79	17.32	20	20		2.588	2.242	13.39	
1,2,4-Trimethylbenzene	1	0		7.82	17.25	20	20		2.527	2.179	13.77	
sec-Butylbenzene	1	0		7.92	17.60	20	20		3.047	2.681	12.00	
4-Isopropyltoluene	1	0		7.99	17.08	20	20		2.558	2.184	14.61	
n-Butylbenzene	1	0		8.23	17.56	20	20		2.616	2.296	12.23	
p-Diethylbenzene	1	0		8.21	13.40	20	20		1.517	1.302	33.01	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	17.50	20	20		1.406	1.230	12.52	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.16	20	20	0.05	0.225	0.182	19.19	
Camphor	1	0		9.16	191.01	200	20		0.054	0.047	4.49	
Hexachlorobutadiene	1	0		9.31	18.20	20	20		0.348	0.317	9.01	
1,2,4-Trichlorobenzene	1	0		9.23	16.91	20	20	0.2	0.891	0.753	15.47	
1,2,3-Trichlorobenzene	1	0		9.52	15.83	20	20		0.753	0.596	20.85	C1
Naphthalene	1	0		9.38	11.87	20	20		1.954	1.409	40.66	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	11.56	20	20	0.1	0.425	0.246	42.18	C1
Dichlorodifluoromethane	1	0		1.64	7.11	20	20	0.1	0.171	0.061	64.44	C1
Chloromethane	1	0		1.82	9.37	20	20	0.1	0.284	0.133	53.16	C1
Bromomethane	1	0		2.23	16.12	20	20	0.1	0.281	0.227	19.39	
Vinyl Chloride	1	0		1.92	17.72	20	20	0.1	0.359	0.318	11.41	
Chloroethane	1	0		2.32	16.04	20	20	0.1	0.253	0.203	19.80	
Trichlorofluoromethane	1	0		2.55	20.17	20	20	0.1	0.532	0.537	0.85	
Ethyl ether	1	0		2.80	23.23	20	20	0.5	0.336	0.390	16.16	
Furan	1	0		2.84	21.66	20	20	0.5	0.475	0.515	8.31	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	46.03	20	20	0.1	0.338	0.778	130.13	C1
Methylene Chloride	1	0		3.42	16.24	20	20	0.1	0.425	0.345	18.82	
Acrolein	1	0		2.91	139.65	100	20		0.049	0.069	39.65	C1
Acrylonitrile	1	0		3.62	23.92	20	20		0.123	0.147	19.61	
Iodomethane	1	0		3.16	16.33	20	20		0.520	0.424	18.37	
Acetone	1	0		3.04	192.59	100	20	0.1	0.062	0.119	92.59	C1
Carbon Disulfide	1	0		3.23	20.55	20	20	0.1	1.043	1.072	2.77	
t-Butyl Alcohol	1	0		3.49	198.30	100	20		0.015	0.030	98.30	C1
n-Hexane	1	0		3.90	29.66	20	20		0.332	0.493	48.31	C1
Di-isopropyl-ether	1	0		4.06	30.98	20	20		0.968	1.499	54.92	C1
1,1-Dichloroethene	1	0		3.01	21.84	20	20	0.1	0.489	0.534	9.18	
Methyl Acetate	1	0		3.32	29.25	20	20	0.1	0.266	0.389	46.23	C1
Methyl-t-butyl ether	1	0		3.66	34.67	20	20	0.1	0.916	1.588	73.35	C1
1,1-Dichloroethane	1	0		4.01	15.96	20	20	0.2	0.650	0.519	20.21	
trans-1,2-Dichloroethene	1	0		3.67	16.27	20	20	0.1	0.417	0.339	18.63	
Ethyl-t-butyl ether	1	0		4.32	17.43	20	20	0.5	0.890	0.776	12.87	
cis-1,2-Dichloroethene	1	0		4.43	16.15	20	20	0.1	0.587	0.474	19.27	
Bromochloromethane	1	0		4.58	17.83	20	20		0.280	0.250	10.87	
2,2-Dichloropropane	1	0		4.43	16.31	20	20		0.405	0.330	18.46	
Ethyl acetate	1	0		4.45	16.04	20	20		0.301	0.241	19.79	
1,4-Dioxane	1	0		5.51	2441.38	1000	20		0.001	0.002	144.14	C1
1,1-Dichloropropene	1	0		4.84	17.11	20	20		0.496	0.424	14.43	
Chloroform	1	0		4.62	16.89	20	20	0.2	0.697	0.589	15.55	
Dibromofluoromethane	1	0	S	4.72	30.09	30	**		0.286	0.287	0.31	
Cyclohexane	1	0		4.79	32.17	20	20	0.1	0.470	0.756	60.87	C1
1,2-Dichloroethane-d4	1	0	S	4.92	27.25	30	**		0.131	0.119	9.17	
1,2-Dichloroethane	1	0		4.96	17.65	20	20	0.1	0.442	0.390	11.77	
2-Butanone	1	0		4.43	19.43	20	20	0.1	0.106	0.103	2.86	
1,1,1-Trichloroethane	1	0		4.75	17.56	20	20	0.1	0.580	0.509	12.22	
Carbon Tetrachloride	1	0		4.85	18.44	20	20	0.1	0.528	0.487	7.81	
Vinyl Acetate	1	0		4.05	23.74	20	20		0.787	0.935	18.72	
Bromodichloromethane	1	0		5.58	17.70	20	20	0.2	0.536	0.474	11.49	
Methylcyclohexane	1	0		5.44	32.30	20	20	0.1	0.497	0.803	61.50	C1
Dibromomethane	1	0		5.51	19.25	20	20		0.312	0.301	3.77	
1,2-Dichloropropane	1	0		5.45	16.54	20	20	0.1	0.390	0.323	17.28	
Trichloroethene	1	0		5.32	18.48	20	20	0.2	0.467	0.431	7.62	
Benzene	1	0		4.97	17.48	20	20	0.5	1.527	1.335	12.59	
tert-Amyl methyl ether	1	0		5.01	17.96	20	20		0.903	0.811	10.22	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	17.82	20	20	0.5	0.613	0.546	10.92	
Methyl methacrylate	1	0		5.47	16.68	20	20	0.5	0.282	0.235	16.58	
Dibromochloromethane	1	0		6.43	16.47	20	20	0.1	0.561	0.462	17.64	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	16.01	20	20		0.198	0.159	19.93	
cis-1,3-Dichloropropene	1	0		5.82	17.80	20	20	0.2	0.724	0.644	10.98	
trans-1,3-Dichloropropene	1	0		6.10	16.82	20	20	0.1	0.611	0.514	15.92	
Ethyl methacrylate	1	0		6.12	18.63	20	20	0.5	0.302	0.281	6.86	
1,1,2-Trichloroethane	1	0		6.21	18.19	20	20	0.1	0.460	0.418	9.05	
1,2-Dibromoethane	1	0		6.51	17.59	20	20	0.1	0.472	0.415	12.06	
1,3-Dichloropropane	1	0		6.31	16.65	20	20		0.743	0.618	16.73	
4-Methyl-2-Pentanone	1	0		5.89	16.29	20	20	0.1	0.293	0.239	18.53	
2-Hexanone	1	0		6.32	16.37	20	20	0.1	0.192	0.157	18.17	
Tetrachloroethene	1	0		6.31	16.37	20	20	0.2	0.426	0.348	18.16	
Toluene-d8	1	0	S	5.98	27.76	30	**		1.126	1.042	7.48	
Toluene	1	0		6.01	16.06	20	20	0.4	1.154	0.926	19.72	
1,1,1,2-Tetrachloroethane	1	0		6.80	16.88	20	20		0.485	0.410	15.61	
Chlorobenzene	1	0		6.77	17.42	20	20	0.5	1.315	1.145	12.90	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.99	20	20	0.5	1.289	1.095	15.04	
n-Amyl acetate	1	0		7.13	11.07	20	20	0.5	1.030	0.676	44.66	C1
Bromoform	1	0		7.21	16.09	20	20	0.1	0.701	0.564	19.55	
Ethylbenzene	1	0		6.81	14.91	20	20	0.1	0.971	0.724	25.44	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.02	20	20	0.1	1.053	0.843	19.89	
Bromofluorobenzene	1	0	S	7.38	31.44	30	**		0.757	0.793	4.81	
Styrene	1	0		7.09	16.22	20	20	0.3	2.303	1.868	18.88	
m&p-Xylenes	1	0		6.87	32.70	40	20	0.1	1.336	1.092	18.24	
o-Xylene	1	0		7.09	15.32	20	20	0.3	1.439	1.102	23.38	C1
trans-1,4-Dichloro-2-butene	1	0		7.46	22.06	20	20		0.293	0.323	10.28	
1,3-Dichlorobenzene	1	0		8.01	16.37	20	20	0.6	1.818	1.488	18.13	
1,4-Dichlorobenzene	1	0		8.06	16.06	20	20	0.5	1.833	1.472	19.71	
1,2-Dichlorobenzene	1	0		8.28	16.33	20	20	0.4	1.739	1.420	18.36	
Isopropylbenzene	1	0		7.28	16.27	20	20	0.1	3.325	2.704	18.67	
Cyclohexanone	1	0		7.35	117.99	100	20		0.008	0.007	17.99	
Camphene	1	0		7.46	16.20	20	20		0.828	0.671	18.99	
1,2,3-Trichloropropane	1	0		7.46	16.77	20	20		1.173	0.983	16.17	
2-Chlorotoluene	1	0		7.58	16.23	20	20		2.119	1.719	18.87	
p-Ethyltoluene	1	0		7.57	16.42	20	20		3.491	2.865	17.92	
4-Chlorotoluene	1	0		7.63	15.93	20	20		2.076	1.654	20.34	
n-Propylbenzene	1	0		7.51	17.37	20	20		3.757	3.263	13.17	
Bromobenzene	1	0		7.48	17.97	20	20		2.054	1.846	10.14	
1,3,5-Trimethylbenzene	1	0		7.60	16.27	20	20		2.329	1.895	18.66	
Butyl methacrylate	1	0		7.60	18.34	20	20	0.5	0.764	0.701	8.28	
t-Butylbenzene	1	0		7.79	16.00	20	20		2.588	2.070	20.02	
1,2,4-Trimethylbenzene	1	0		7.82	16.37	20	20		2.527	2.068	18.14	
sec-Butylbenzene	1	0		7.92	16.17	20	20		3.047	2.464	19.13	
4-Isopropyltoluene	1	0		7.99	16.43	20	20		2.558	2.101	17.87	
n-Butylbenzene	1	0		8.23	16.57	20	20		2.616	2.167	17.16	
p-Diethylbenzene	1	0		8.21	11.94	20	20		1.517	1.160	40.31	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.95	20	20		1.406	1.192	15.23	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.61	20	20	0.05	0.225	0.187	16.96	
Camphor	1	0		9.16	175.84	200	20		0.054	0.043	12.08	
Hexachlorobutadiene	1	0		9.31	16.52	20	20		0.348	0.288	17.39	
1,2,4-Trichlorobenzene	1	0		9.22	15.96	20	20	0.2	0.891	0.711	20.19	
1,2,3-Trichlorobenzene	1	0		9.52	15.96	20	20		0.753	0.601	20.19	
Naphthalene	1	0		9.38	12.60	20	20		1.954	1.497	36.99	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M123440.D	WMB106837	A	03/15/23 09:41	1		NA	NA	96	94	NA	112
5M123481.D	WMB106862	A	03/17/23 09:23	1		NA	NA	121	120	NA	134
5M123447.D	AD36716-001	A	03/15/23 12:27	1		NA	NA	34*	55	NA	62
5M123494.D	AD36716-013	A	03/17/23 14:33	1		NA	NA	91	91	NA	104
5M123495.D	AD36716-014	A	03/17/23 14:57	1		NA	NA	96	98	NA	124
5M123496.D	AD36716-015	A	03/17/23 15:20	1		NA	NA	121	127	NA	136
5M123497.D	AD36716-016(MS:AD36	A	03/17/23 15:44	1		NA	NA	123	113	NA	141
5M123498.D	AD36716-017(MSD:AD3	A	03/17/23 16:07	1		NA	NA	128	118	NA	141
5M123499.D	AD36716-018	A	03/17/23 16:31	1		NA	NA	105	102	NA	145
5M123500.D	AD36716-019	A	03/17/23 16:54	1		NA	NA	78	75	NA	101
5M123501.D	AD36716-020	A	03/17/23 17:18	1		NA	NA	104	113	NA	129
5M123502.D	AD36716-021	A	03/17/23 17:42	1		NA	NA	111	109	NA	145
5M123439.D	WMB106837(MS)	A	03/15/23 09:18	1		NA	NA	110	100	NA	115
5M123444.D	AD36590-031(T)	A	03/15/23 11:16	1		NA	NA	104	101	NA	119
5M123445.D	AD36590-031(T)(MS)	A	03/15/23 11:40	1		NA	NA	113	106	NA	116
5M123446.D	AD36590-031(T)(MSD)	A	03/15/23 12:04	1		NA	NA	112	100	NA	112
5M123480.D	WMB106862(MS)	A	03/17/23 08:59	1		NA	NA	125	122	NA	136

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 104579

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 104579

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	25	A031723A	24	228.5340	226.5550	.87		20
Chromium	104579	A031723A	25	A031723A	24	234.1970	231.8620	1		20
Copper	104579	A031723A	25	A031723A	24	233.1580	236.8990	1.6		20
Lead	104579	A031723A	25	A031723A	24	219.2180	218.4320	.36		20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	27	A031723A	26	1U	1U	---		20
Chromium	104579	A031723A	27	A031723A	26	1U	1.1460	---		20
Copper	104579	A031723A	27	A031723A	26	11.3700	8.2000	32	b	20
Lead	104579	A031723A	27	A031723A	26	3.6300	3.1320	15		20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD36716-017

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	30	A031723A	29	223.4040	230.8130	3.3		20
Chromium	104579	A031723A	30	A031723A	29	224.3790	232.4100	3.5		20
Copper	104579	A031723A	30	A031723A	29	224.7930	232.9890	3.6		20
Lead	104579	A031723A	30	A031723A	29	204.8260	212.3140	3.6		20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	104579	A031723A	28	A031723A	26	5	0.0580	0.3740	22	c	20
Chromium	104579	A031723A	28	A031723A	26	5	0.2150	1.1460	6.2		20
Copper	104579	A031723A	28	A031723A	26	5	1.7030	8.2000	---		20
Lead	104579	A031723A	28	A031723A	26	5	0.8420	3.1320	34	a	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M66140.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 3/17/2023 9:11:00 A Method: EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	5.22	5	20		0.908	0.949	4.48	
1,4-Dichlorobenzene-d4	1	0	I	5.80	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.99	5.75	5	20	0.01	1.131	1.300	14.95	
bis(2-Chloroethyl)ether	1	0		5.58	5.02		**		1.359			
2-Methylphenol	1	0		6.00	5.68	5	20		0.984	1.117	13.51	
Hexachloroethane	1	0		6.21	5.50	5	20	0.3	0.483	0.531	10.00	
3&4-Methylphenol	1	0		6.00	5.74	5	20		0.973	1.118	14.83	
Naphthalene-d8	1	0	I	6.80	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.10		**		0.213			
2,4-Dimethylphenol	1	0		6.54	2.72	5	20		0.173	0.094	45.53	C1
Naphthalene	1	0		6.82	4.63	5	20	0.7	1.020	0.945	7.37	
Hexachlorobutadiene	1	0		6.92	4.34	5	20	0.01	0.187	0.163	13.15	
Acenaphthene-d10	1	0	I	8.24	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.48	5.42	5	20		0.208	0.225	8.34	
2,4,5-Trichlorophenol	1	0		7.60	6.18		**		0.270			
2-Fluorobiphenyl	1	0	S	7.64	27.11		**		1.004			
Acenaphthylene	1	0		8.11	5.51	5	20	0.9	1.726	1.901	10.18	
Acenaphthene	1	0		8.26	5.06	5	20	0.9	1.133	1.147	1.21	
Dibenzofuran	1	0		8.42	4.68	5	20		1.624	1.519	6.45	
Fluorene	1	0		8.74	5.64	5	20	0.9	0.946	1.067	12.82	
Phenanthrene-d10	1	0	I	9.70	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	5.18	5	20	0.01	0.044	0.057	3.65	
1,2-Diphenylhydrazine	1	0		8.87	5.59	5	20		0.414	0.463	11.86	
Hexachlorobenzene	1	0		9.28	4.71	5	20	0.1	0.215	0.202	5.87	
Pentachlorophenol	1	0		9.48	5.27	5	20	0.05	0.069	0.094	5.38	
Phenanthrene	1	0		9.72	4.82	5	20	0.7	1.059	1.021	3.57	
Anthracene	1	0		9.77	5.16	5	20	0.7	0.885	0.913	3.25	
Carbazole	1	0		9.94	5.42	5	20	0.01	0.743	0.805	8.33	
Fluoranthene	1	0		11.05	5.73	5	20	0.6	0.993	1.138	14.62	
Chrysene-d12	1	0	I	12.74	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.31	4.83	5	20	0.6	2.716	2.625	3.34	
Terphenyl-d14	1	0	S	11.50	25.76		**		1.283			
Benzo[a]anthracene	1	0		12.73	6.10	5	20	0.8	1.281	1.563	22.03	C1
Chrysene	1	0		12.78	4.65	5	20	0.7	1.720	1.600	6.95	
Perylene-d12	1	0	I	14.37	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.96	5.83	5	20	0.7	1.602	1.868	16.65	
Benzo[k]fluoranthene	1	0		13.99	4.62	5	20	0.7	2.038	1.884	7.56	
Benzo[a]pyrene	1	0		14.31	5.49	5	20	0.7	1.509	1.658	9.89	
Indeno[1,2,3-cd]pyrene	1	0		15.67	5.81	5	20	0.5	1.765	2.052	16.28	
Dibenzo[a,h]anthracene	1	0		15.70	5.89	5	20	0.4	1.355	1.595	17.71	
Benzo[g,h,i]perylene	1	0		16.04	5.22	5	20	0.5	1.582	1.653	4.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

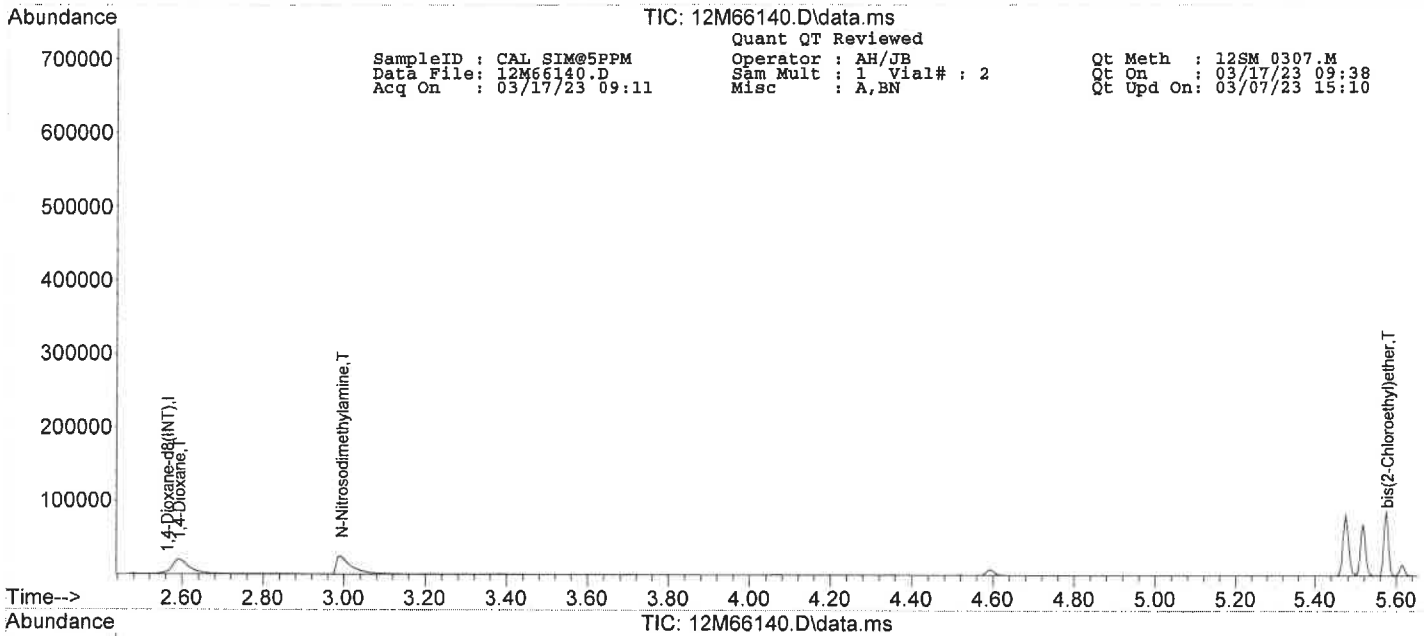
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0307.M
Data File: 12M66140.D Sam Mult : 1 Vial# : 2 Qt On : 03/17/23 09:38
Acq On : 03/17/23 09:11 Misc : A,BN Qt Upd On: 03/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\03-17-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.564	96	26360m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.801	152	24820	0.40	ng	0.00
9) Naphthalene-d8	6.805	136	118851	0.40	ng	0.00
14) Acenaphthene-d10	8.237	164	60628	0.40	ng	0.00
22) Phenanthrene-d10	9.695	188	122015	0.40	ng	0.00
31) Chrysene-d12	12.744	240	51332m	0.40	ng	0.00
36) Perylene-d12	14.370	264	40436m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.243	82	1586654	25.10	ng	0.00
Spiked Amount 50.000			Recovery = 50.20%			
17) 2-Fluorobiphenyl	7.642	172	3327583	27.11	ng	0.00
Spiked Amount 50.000			Recovery = 54.22%			
33) Terphenyl-d14	11.502	244	3396700	25.76	ng	0.00
Spiked Amount 50.000			Recovery = 51.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.592	88	312581m	5.2240	ng	
4) N-Nitrosodimethylamine	2.994	74	403252	5.7475	ng	83
5) bis(2-Chloroethyl)ether	5.578	93	423025	5.0151	ng	83
6) 2-Methylphenol	5.998	108	346704	5.6755	ng	79
7) Hexachloroethane	6.215	201	164805	5.5000	ng	94
8) 3&4-Methylphenol	5.999	108	346759	5.7414	ng	79
11) 2,4-Dimethylphenol	6.537	107	139690	2.7233	ng	73
12) Naphthalene	6.817	128	1404053	4.6316	ng	100
13) Hexachlorobutadiene	6.916	225	241420	4.3427	ng	44
15) Hexachlorocyclopentadiene	7.481	237	170362	5.4168	ng	73
16) 2,4,5-Trichlorophenol	7.599	196	252484m	6.1790	ng	
18) Acenaphthylene	8.107	152	1440886	5.5091	ng	99
19) Acenaphthene	8.258	153	869237	5.0603	ng	78
20) Dibenzofuran	8.417	168	1151405	4.6773	ng	98
21) Fluorene	8.735	166	808615	5.6412	ng	91
23) 4,6-Dinitro-2-methylph...	8.769	198	87070	5.1823	ng	76
24) 1,2-Diphenylhydrazine	8.874	77	706178	5.5932	ng	80
25) Hexachlorobenzene	9.281	284	308484	4.7064	ng	86
26) Pentachlorophenol	9.480	266	143558	5.2691	ng	94
27) Phenanthrene	9.715	178	1557036	4.8214	ng	100
28) Anthracene	9.768	178	1393189	5.1624	ng	98
29) Carbazole	9.942	167	1227262	5.4163	ng	97
30) Fluoranthene	11.048	202	1735192	5.7309	ng	92
32) Pyrene	11.313	202	1684510	4.8332	ng	93
34) Benzo[a]anthracene	12.735	228	1002767m	6.1017	ng	
35) Chrysene	12.777	228	1026778	4.6527	ng	97
37) Benzo[b]fluoranthene	13.958	252	944321	5.8324	ng	91
38) Benzo[k]fluoranthene	13.988	252	952108	4.6220	ng	98
39) Benzo[a]pyrene	14.310	252	837922	5.4947	ng	93
40) Indeno[1,2,3-cd]pyrene	15.671	276	1037084	5.8138	ng	98
41) Dibenzo[a,h]anthracene	15.695	278	806293	5.8855	ng	99
42) Benzo[g,h,i]perylene	16.039	276	835258	5.2219	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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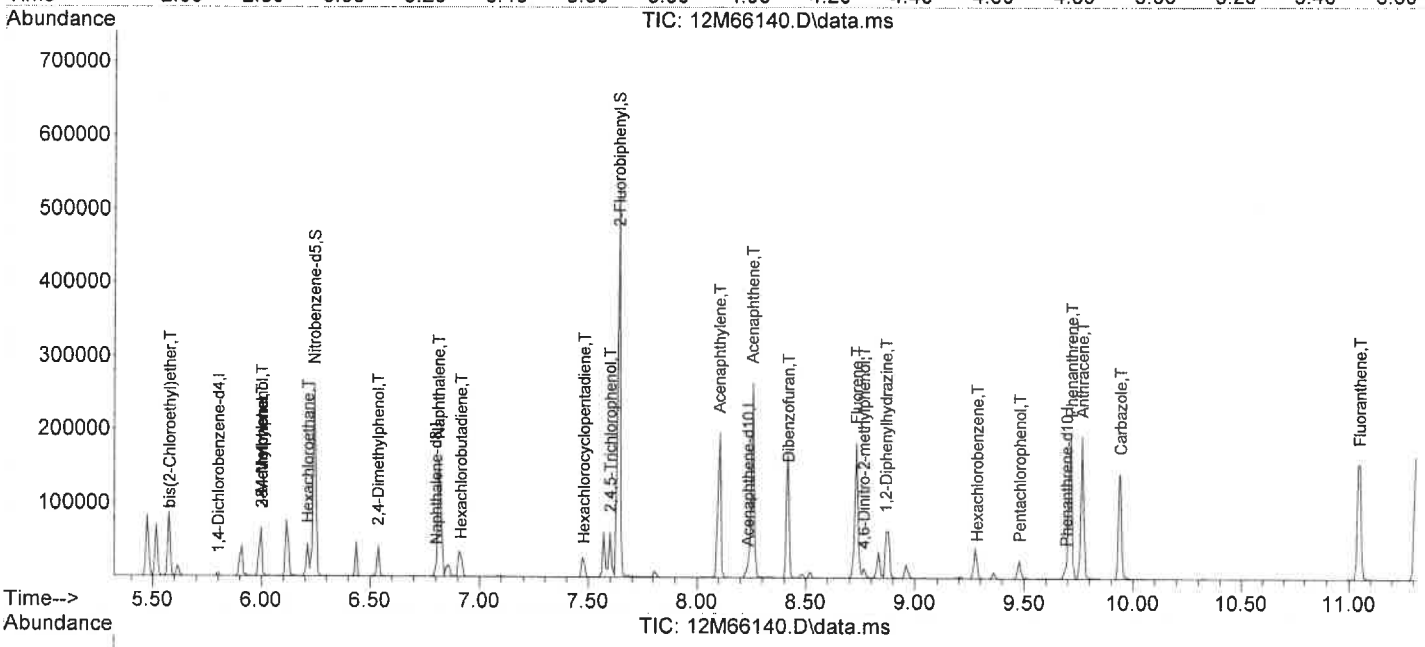
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M66140.D
Acq On : 03/17/23 09:11
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0307.M
Qt On : 03/17/23 09:38
Qt Upd On: 03/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
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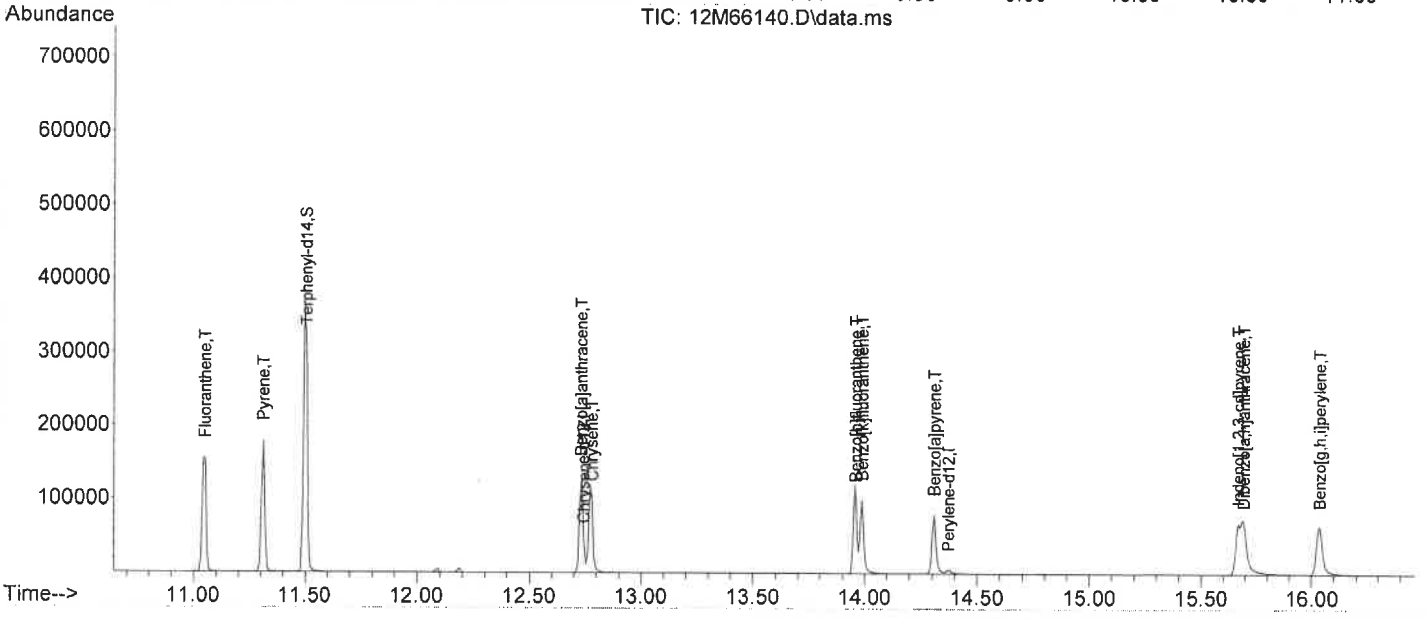
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Time-->


Abundance
TIC: 12M66140.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 691163

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of α-Chlordane and γ-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.176	612.4E6	930.1E6	74.775	73.714
45)DCB-Surrogate	8.621	8.990	288.8E6	418.7E6	40.463m	40.248

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

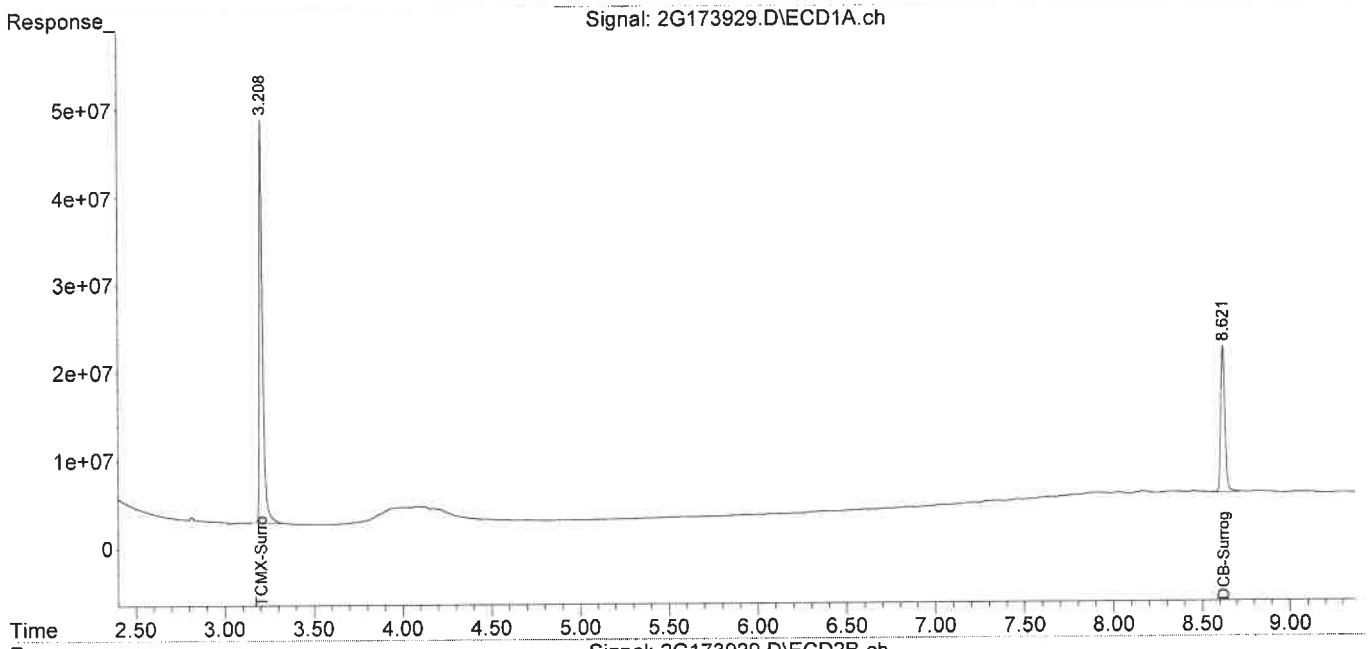
dhc

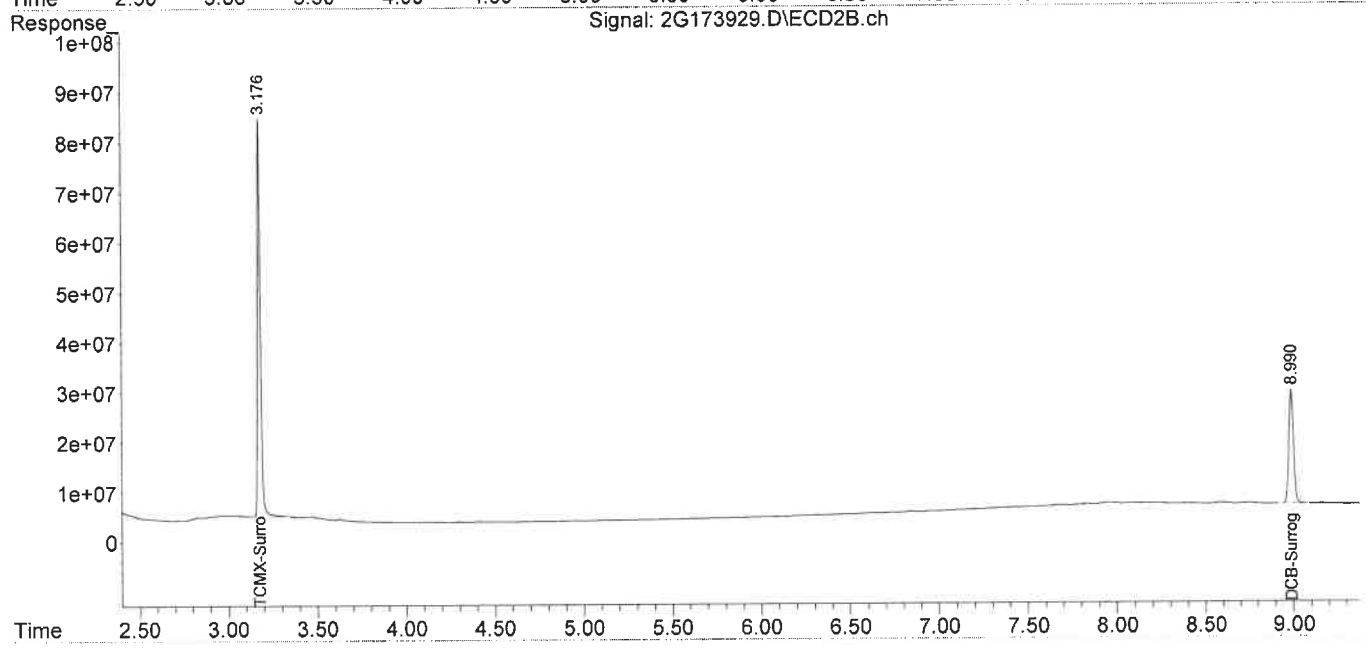
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
York Analytical Laboratories SDG#23C0686
May 17, 2023
Revised October 24, 2023
Sampling date: 3/9/2023

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(revised October 24, 2023) for Day Environmental, Inc., project located at MNR Harmon Yard, York Analytical Laboratories SDG#23C0686 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), Method 1633 Draft 3 and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using the USEPA method Perfluorinated Hydrocarbons (1633 draft 2).

DUSR ID	Sample ID	Laboratory ID
1	VE 1-4	23C0686-01
2	VE 2-1	23C0686-02
3	VE 4-11	23C0686-03
4	030923 DUP	23C0686-04
5	030923 EB	23C0686-05
6	TRIP BLANK	23C0686-06

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and Initial Calibration.

DATA COMPLETENESS
All criteria were met except on Form VIII the 'Reference Response', 'Reference RT' and 'Area %' were not included for S3C1630-CCV1. Since the %Rec for the surrogates were within QC limits for both S3C1630-CCV1 and S3C1630-CCV2, no further action is required for the samples.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met except the Area % for several extracted internal standards was outside QC limits in the samples and should be qualified as estimated.

Internal Standard	Qualifier	Associated Sample
d9-NEtFOSE-EIS	JH	BC30953-BS1
M4-PFHpA-EIS	JH	1
M2-8-FTS-EIS	UJ	1, 2, 4, 1DUP
M2-6-FTS-EIS	UJ	1-4, 1DUP
M2-4-FTS-EIS	UJ	1-4, 1DUP
M5PFHxA-EIS	JH	3
MPFHxA	JH	3

Some internal standards were outside QC limits low but the associated target analytes were not detected in the associated samples, so no further action is required.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
M2-4:2FTS	UJ/J	1-4, 1DUP
D7-N-MeFOSE	UJ/J	1DUP
M5PFPeA	UJ/J	4, 1DUP
M2-6:2FTS	UJ/J	1-4, 1DUP
M2-8:2FTS	UJ/J	1, 3, 4, 1DUP
d5-N-EtFOSAA	UJ/J	3, 1DUP

The %Rec of some of the surrogates were outside laboratory QC limits but within Method 1633 draft 3 limits, so no further action is required.

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met except PFNA was detected in DUSR ID#1 but was not detected in #4.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD/DUPLICATE
All the criteria were met for the laboratory control duplicate.
No MS/MSD was acquired.

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met except some target analytes and surrogates were outside QC limits in the initial calibration and should be qualified as estimated in the associated blanks, spikes and samples.

ICal ID	Target Analyte/Surrogate	R^2/%D	Qualifier	Associated Sample
LCQQQ 3/2/23	4:2FTS	.987	UJ/J	BC30953, 1-6, 1DUP
LCQQQ 3/2/23	6:2FTS	.993	UJ/J	BC30953, 1-6, 1DUP
LCQQQ 3/2/23	8:2FTS	.988	UJ/J	BC30953, 1-6, 1DUP
LCQQQ 3/2/23	M2-4:2FTS	57.1	UJ/J	BC30953, 1-6, 1DUP
LCQQQ 3/2/23	M2-6:2FTS	61.9	UJ/J	BC30953, 1-6, 1DUP
LCQQQ 3/2/23	M2-8:2FTS	47.2	UJ/J	BC30953, 1-6, 1DUP

Alternate forms of regression were used on all of the target analytes, with acceptable results, except where qualified in the table above.

CONTINUING CALIBRATION
All criteria were met.

CASE NARRATIVE

York Project/SDG No.: 23C0686
Client: Metro North Commuter Railroad
Client Project ID: 23-3685m
Prepared for: H. McClennan

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **03/10/2023 17:00** as detailed on the chain-of-custody form.

The 6 sample(s) were received intact in a custody-sealed cooler(s), unless otherwise noted.
Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**4.7**

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Client Sample Information and Non-Conformances

Laboratory ID	Sample Name	Matrix
23C0686-01	VE 1-4	Water
23C0686-02	VE 2-1	Water
23C0686-03	VE 4-11	Water
23C0686-04	030923 DUP	Water
23C0686-05	030923 EB	Water
23C0686-06	TRIP BLANK	Water

Any additional Client Sample Non-conformances are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

QC Sample Non-Conformances

Any QC sample Non-conformances (SCV, CCV, BS, BSD, SRM, PS, MS, MSD, DUP) are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

York Project/SDG no.: 23C0686 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic data deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Cassie Mosher*
Laboratory Manager

Date: 03/27/2023

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

1. **Volatile Organics (Water-ug/L or Soil-ug/Kg)**

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

2. **Semi-Volatiles (Water-ug/L or Soil-ug/Kg)**

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

3. **Pesticides/PCB, DRO, EPH, CTETPH (Water-ug/L or Soil-ug/Kg)**

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

4. **Inorganics (Water or Soil-ug/mL)**

$$Cx = \frac{(Conc.)(VE)}{(V)(\%\ solids/100)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts
Ais = Area of the characteristic ion for the specific internal standard, counts
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams
VA = volume of MeOH aliquot for medium level soils
VE = final volume of concentrated extract or digestate
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb

Cis = Concentration of the internal standard spiking mixture, ppbv

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
VE 1-4 (23C0686-01)			Lab File ID: QQQ25151.d		Analyzed: 03/15/23 20:26			
M3PFBS	41.5	105	25 - 150	4.7435	4.844919	-0.1014	+/-1.00	
M5PFHxA	44.6	110	25 - 150	5.62885	5.703183	-0.0743	+/-1.00	
M4PFHpA	44.6	85.0	25 - 150	6.4336	6.510327	-0.0767	+/-1.00	
M3PFHxS	42.2	104	25 - 150	6.543667	6.61335	-0.0697	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	44.6	112	25 - 150	7.1104	7.189252	-0.0789	+/-1.00	
M6PFDA	22.3	116	25 - 150	8.27075	8.330127	-0.0594	+/-1.00	
M7PFUdA	22.3	106	25 - 150	8.732417	8.790537	-0.0581	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.3	93.7	25 - 150	9.122084	9.178996	-0.0569	+/-1.00	
M2PFTeDA	22.3	94.6	10 - 150	9.7496	9.802848	-0.0532	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	178	105	25 - 150	1.012033	1.044158	-0.0321	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	42.7	104	25 - 150	7.7685	7.836417	-0.0679	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	89.1	146	25 - 150	3.906567	4.001925	-0.0954	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	44.6	127	10 - 150	8.941633	8.977198	-0.0356	+/-1.00	
d3-N-MeFOSAA	89.1	131	25 - 150	8.481433	8.536365	-0.0549	+/-1.00	
d5-N-EtFOSAA	89.1	136	25 - 150	8.703617	8.759327	-0.0557	+/-1.00	
M2-6:2 FTS	84.7	408	25 - 200	7.0724	7.144266	-0.0719	+/-1.00	*
M2-8:2 FTS	85.5	279	25 - 200	8.2514	8.30724	-0.0558	+/-1.00	*
M9PFNA	22.3	110	25 - 150	7.72295	7.796833	-0.0739	+/-1.00	
M2-4:2 FTS	83.6	386	25 - 150	5.561283	5.646398	-0.0851	+/-1.00	*
d-N-MeFOSA	44.6	83.1	25 - 150	9.775567	9.794952	-0.0194	+/-1.00	
d-N-EtFOSA	44.6	98.3	25 - 150	10.03292	10.0548	-0.0219	+/-1.00	
M3HFPO-DA	178	111	25 - 150	5.901333	5.975269	-0.0739	+/-1.00	
d9-N-EtFOSE	446	140	25 - 150	10.02018	10.03627	-0.0161	+/-1.00	
d7-N-MeFOSE	446	137	25 - 150	9.780216	9.795686	-0.0155	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Duplicate (BC30953-DUP1)			Lab File ID: QQQ25152.d		Analyzed: 03/15/23 20:42			
M3PFBS	42.0	108	25 - 150	4.771167	4.844919	-0.0738	+/-1.00	
M5PFHxA	45.1	118	25 - 150	5.638083	5.703183	-0.0651	+/-1.00	
M4PFHpA	45.1	90.3	25 - 150	6.461717	6.510327	-0.0486	+/-1.00	
M3PFHxS	42.7	113	25 - 150	6.571466	6.61335	-0.0419	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.1	109	25 - 150	7.156883	7.189252	-0.0324	+/-1.00	
M6PFDA	22.5	126	25 - 150	8.317416	8.330127	-0.0127	+/-1.00	
M7PFUdA	22.5	110	25 - 150	8.769484	8.790537	-0.0211	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.5	106	25 - 150	9.131383	9.178996	-0.0476	+/-1.00	
M2PFTeDA	22.5	89.7	10 - 150	9.712633	9.802848	-0.0902	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	180	113	25 - 150	1.030383	1.044158	-0.0138	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	43.2	139	25 - 150	7.81555	7.836417	-0.0209	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.2	154	25 - 150	3.93415	4.001925	-0.0678	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.1	145	10 - 150	8.97055	8.977198	-0.0066	+/-1.00	
d3-N-MeFOSAA	90.2	150	25 - 150	8.519083	8.536365	-0.0173	+/-1.00	
d5-N-EtFOSAA	90.2	156	25 - 150	8.7407	8.759327	-0.0186	+/-1.00	*
M2-6:2 FTS	85.7	438	25 - 200	7.1094	7.144266	-0.0349	+/-1.00	*
M2-8:2 FTS	86.5	286	25 - 200	8.298034	8.30724	-0.0092	+/-1.00	*
M9PFNA	22.5	122	25 - 150	7.769783	7.796833	-0.0271	+/-1.00	
M2-4:2 FTS	84.6	412	25 - 150	5.57975	5.646398	-0.0666	+/-1.00	*
d-N-MeFOSA	45.1	96.4	25 - 150	9.748083	9.794952	-0.0469	+/-1.00	
d-N-EtFOSA	45.1	99.7	25 - 150	9.996067	10.0548	-0.0587	+/-1.00	
M3HFPO-DA	180	113	25 - 150	5.910617	5.975269	-0.0647	+/-1.00	
d9-N-EtFOSE	451	146	25 - 150	9.983117	10.03627	-0.0532	+/-1.00	
d7-N-MeFOSE	451	156	25 - 150	9.751966	9.795686	-0.0437	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
VE 2-1 (23C0686-02)			Lab File ID: QQQ25153.d		Analyzed: 03/15/23 20:58			
M3PFBS	41.5	96.8	25 - 150	4.80805	4.844919	-0.0369	+/-1.00	
M5PFHxA	44.5	95.9	25 - 150	5.6662	5.703183	-0.0370	+/-1.00	
M4PFHpA	44.5	78.5	25 - 150	6.470984	6.510327	-0.0393	+/-1.00	
M3PFHxS	42.2	96.4	25 - 150	6.57145	6.61335	-0.0419	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	44.5	104	25 - 150	7.147634	7.189252	-0.0416	+/-1.00	
M6PFDA	22.2	91.5	25 - 150	8.298866	8.330127	-0.0313	+/-1.00	
M7PFUdA	22.2	90.7	25 - 150	8.750934	8.790537	-0.0396	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.2	83.9	25 - 150	9.140634	9.178996	-0.0384	+/-1.00	
M2PFTeDA	22.2	80.5	10 - 150	9.768184	9.802848	-0.0347	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	178	103	25 - 150	1.021217	1.044158	-0.0229	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	42.6	101	25 - 150	7.796983	7.836417	-0.0394	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	88.9	116	25 - 150	3.970917	4.001925	-0.0310	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	44.5	112	10 - 150	8.961284	8.977198	-0.0159	+/-1.00	
d3-N-MeFOSAA	88.9	105	25 - 150	8.49995	8.536365	-0.0364	+/-1.00	
d5-N-EtFOSAA	88.9	113	25 - 150	8.72215	8.759327	-0.0372	+/-1.00	
M2-6:2 FTS	84.6	292	25 - 200	7.10015	7.144266	-0.0441	+/-1.00	*
M2-8:2 FTS	85.4	145	25 - 200	8.269934	8.30724	-0.0373	+/-1.00	
M9PFNA	22.2	97.8	25 - 150	7.7605	7.796833	-0.0363	+/-1.00	
M2-4:2 FTS	83.4	328	25 - 150	5.607433	5.646398	-0.0390	+/-1.00	*
d-N-MeFOSA	44.5	89.2	25 - 150	9.7848	9.794952	-0.0102	+/-1.00	
d-N-EtFOSA	44.5	89.7	25 - 150	10.04215	10.0548	-0.0127	+/-1.00	
M3HFPO-DA	178	96.0	25 - 150	5.929083	5.975269	-0.0462	+/-1.00	
d9-N-EtFOSE	445	116	25 - 150	10.0294	10.03627	-0.0069	+/-1.00	
d7-N-MeFOSE	445	120	25 - 150	9.790083	9.795686	-0.0056	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
030923 DUP (23C0686-04)			Lab File ID: QQQ25155.d		Analyzed: 03/15/23 21:30			
M3PFBS	42.1	103	25 - 150	4.771167	4.844919	-0.0738	+/-1.00	
M5PFHxA	45.1	112	25 - 150	5.6381	5.703183	-0.0651	+/-1.00	
M4PFHpA	45.1	98.4	25 - 150	6.452466	6.510327	-0.0579	+/-1.00	
M3PFHxS	42.8	110	25 - 150	6.55295	6.61335	-0.0604	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.1	118	25 - 150	7.1289	7.189252	-0.0604	+/-1.00	
M6PFDA	22.6	116	25 - 150	8.28035	8.330127	-0.0498	+/-1.00	
M7PFUdA	22.6	103	25 - 150	8.75095	8.790537	-0.0396	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.6	101	25 - 150	9.149933	9.178996	-0.0291	+/-1.00	
M2PFTeDA	22.6	95.0	10 - 150	9.78675	9.802848	-0.0161	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	181	112	25 - 150	1.021217	1.044158	-0.0229	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	43.2	117	25 - 150	7.77845	7.836417	-0.0580	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.3	151	25 - 150	3.93415	4.001925	-0.0678	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.1	137	10 - 150	8.9613	8.977198	-0.0159	+/-1.00	
d3-N-MeFOSAA	90.3	139	25 - 150	8.4907	8.536365	-0.0457	+/-1.00	
d5-N-EtFOSAA	90.3	150	25 - 150	8.722167	8.759327	-0.0372	+/-1.00	
M2-6:2 FTS	85.8	418	25 - 200	7.081666	7.144266	-0.0626	+/-1.00	*
M2-8:2 FTS	86.7	286	25 - 200	8.260683	8.30724	-0.0466	+/-1.00	*
M9PFNA	22.6	114	25 - 150	7.741983	7.796833	-0.0549	+/-1.00	
M2-4:2 FTS	84.7	403	25 - 150	5.57975	5.646398	-0.0666	+/-1.00	*
d-N-MeFOSA	45.1	102	25 - 150	9.812233	9.794952	0.0173	+/-1.00	
d-N-EtFOSA	45.1	108	25 - 150	10.06982	10.0548	0.0150	+/-1.00	
M3HFPO-DA	181	101	25 - 150	5.910617	5.975269	-0.0647	+/-1.00	
d9-N-EtFOSE	451	137	25 - 150	10.05708	10.03627	0.0208	+/-1.00	
d7-N-MeFOSE	451	146	25 - 150	9.817783	9.795686	0.0221	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
VE 4-11 (23C0686-03)			Lab File ID: QQQ25184.d		Analyzed: 03/16/23 10:30			
M3PFBS	42.1	99.8	25 - 150	4.8357	4.844919	-0.0092	+/-1.00	
M5PFHxA	45.1	106	25 - 150	5.758683	5.703183	0.0555	+/-1.00	
M4PFHpA	45.1	92.0	25 - 150	6.619467	6.510327	0.1091	+/-1.00	
M3PFHxS	42.8	107	25 - 150	6.720267	6.61335	0.1069	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.1	106	25 - 150	7.240133	7.189252	0.0509	+/-1.00	
M6PFDA	22.6	108	25 - 150	8.139517	8.330127	-0.1906	+/-1.00	
M7PFUdA	22.6	107	25 - 150	8.5378	8.790537	-0.2527	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.6	92.9	25 - 150	8.908067	9.178996	-0.2709	+/-1.00	
M2PFTeDA	22.6	92.7	10 - 150	9.555433	9.802848	-0.2474	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	181	102	25 - 150	1.030383	1.044158	-0.0138	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	43.3	117	25 - 150	7.740684	7.836417	-0.0957	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.3	142	25 - 150	3.93415	4.001925	-0.0678	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.1	140	10 - 150	8.763967	8.977198	-0.2132	+/-1.00	
d3-N-MeFOSAA	90.3	150	25 - 150	8.31465	8.536365	-0.2217	+/-1.00	
d5-N-EtFOSAA	90.3	161	25 - 150	8.518283	8.759327	-0.2410	+/-1.00	*
M2-6:2 FTS	85.9	502	25 - 200	7.20215	7.144266	0.0579	+/-1.00	*
M2-8:2 FTS	86.7	397	25 - 200	8.129517	8.30724	-0.1777	+/-1.00	*
M9PFNA	22.6	106	25 - 150	7.713683	7.796833	-0.0832	+/-1.00	
M2-4:2 FTS	84.7	365	25 - 150	5.70215	5.646398	0.0558	+/-1.00	*
d-N-MeFOSA	45.1	91.5	25 - 150	9.590867	9.794952	-0.2041	+/-1.00	
d-N-EtFOSA	45.1	93.4	25 - 150	9.866167	10.0548	-0.1886	+/-1.00	
M3HFPO-DA	181	127	25 - 150	6.049167	5.975269	0.0739	+/-1.00	
d9-N-EtFOSE	451	121	25 - 150	9.844367	10.03627	-0.1919	+/-1.00	
d7-N-MeFOSE	451	126	25 - 150	9.594767	9.795686	-0.2009	+/-1.00	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BC30953-BLK1)			Lab File ID: QQQ25146.d			Analyzed: 03/15/23 19:05			
M3PFBA	52229.2	1.032683	57851.47	1.05105	90	50 - 150	-0.0184	+/-0.50	
MPFDA	17614.28	8.1776	20308.41	8.27115	87	50 - 150	-0.0936	+/-0.50	
MPFHxA	69170.98	5.704216	72968.52	5.648417	95	50 - 150	0.0558	+/-0.50	
MPFHxS	5287.693	6.543217	5197.313	6.561733	102	50 - 150	-0.0185	+/-0.50	
MPFNA	22799.52	7.64835	24470.14	7.7424	93	50 - 150	-0.0941	+/-0.50	
MPFOA	57534.63	7.073916	62068.04	7.1294	93	50 - 150	-0.0555	+/-0.50	
MPFOS	12198.29	7.684983	13259.69	7.7788	92	50 - 150	-0.0938	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	5853.157	7.64795	7236.596	7.741967	81	0 - 500	-0.0940	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	48727.58	7.073417	55951	7.1289	87	0 - 500	-0.0555	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	142389.8	3.998483	154109.5	3.9801	92	0 - 500	0.0184	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	181149.8	1.039567	204443.7	1.057933	89	0 - 500	-0.0184	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	31829.58	9.029016	40298.55	9.122084	79	0 - 500	-0.0931	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	6510.47	7.684516	7070.794	7.778417	92	0 - 500	-0.0939	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	18360.63	8.8488	20215.46	8.93235	91	0 - 500	-0.0835	+/-0.50	
M7PFUdA-EIS	34082.19	8.639733	44266.17	8.732417	77	0 - 500	-0.0927	+/-0.50	
M6PFDA-EIS	21869.89	8.17725	25508.49	8.270733	86	0 - 500	-0.0935	+/-0.50	
M5PFHxA-EIS	94143.11	5.703183	99602.13	5.647333	95	0 - 500	0.0559	+/-0.50	
M4PFHpA-EIS	19792.93	6.443183	22985.3	6.45245	86	0 - 500	-0.0093	+/-0.50	
M3PFHxS-EIS	13812.76	6.543667	15322.08	6.5622	90	0 - 500	-0.0185	+/-0.50	
M3PFBS-EIS	19357.27	4.8357	21668.87	4.798817	89	0 - 500	0.0369	+/-0.50	
M3-HFPO-DA-EIS	52852.37	5.9568	63320.14	5.91985	83	0 - 500	0.0370	+/-0.50	
M2PFTeDA-EIS	14542.76	9.675616	24910.23	9.74035	58	0 - 500	-0.0647	+/-0.50	
M2-8-2FTS-EIS	19091.43	8.148067	23459.9	8.251384	81	0 - 500	-0.1033	+/-0.50	
M2-6-2FTS-EIS	14099.03	7.035417	17070.21	7.0909	83	0 - 500	-0.0555	+/-0.50	
M2-4-2FTS-EIS	28541.76	5.646234	33600.83	5.588984	85	0 - 500	0.0572	+/-0.50	
d9-NEtFOSE-EIS	7042.893	9.946234	17499.77	10.00175	40	0 - 500	-0.0555	+/-0.50	
d7-NMeFOSE-EIS	11806.65	9.69645	21904.94	9.76175	54	0 - 500	-0.0653	+/-0.50	
d5-NEtFOSA-EIS	1256.375	9.96845	2620.645	10.0237	48	0 - 500	-0.0552	+/-0.50	
d5-N-EtFOSAA-EIS	19294.48	8.610933	27885.45	8.703617	69	0 - 500	-0.0927	+/-0.50	
d3-NMeFOSA-EIS	2142.964	9.692567	3386.998	9.766334	63	0 - 500	-0.0738	+/-0.50	
d3-N-MeFOSAA-EIS	23964.93	8.3795	33482.72	8.481417	72	0 - 500	-0.1019	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (BC30953-BS1)			Lab File ID: QQQ25147.d			Analyzed: 03/15/23 19:21			
M3PFBA	50677.02	1.041867	57851.47	1.05105	88	50 - 150	-0.0092	+/-0.50	
MPFDA	18596.11	8.280766	20308.41	8.27115	92	50 - 150	0.0096	+/-0.50	
MPFHxA	67775.94	5.648417	72968.52	5.648417	93	50 - 150	0.0000	+/-0.50	
MPFHxS	5103.21	6.561733	5197.313	6.561733	98	50 - 150	0.0000	+/-0.50	
MPFNA	22493.06	7.7424	24470.14	7.7424	92	50 - 150	0.0000	+/-0.50	
MPFOA	56623.89	7.1294	62068.04	7.1294	91	50 - 150	0.0000	+/-0.50	
MPFOS	11728.05	7.7788	13259.69	7.7788	88	50 - 150	0.0000	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	6987.265	7.741967	7236.596	7.741967	97	0 - 500	0.0000	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	49113.89	7.138383	55951	7.1289	88	0 - 500	0.0095	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	143596.1	3.961717	154109.5	3.9801	93	0 - 500	-0.0184	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	183650.7	1.039567	204443.7	1.057933	90	0 - 500	-0.0184	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	30577.99	9.131367	40298.55	9.122084	76	0 - 500	0.0093	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	6787.612	7.7877	7070.794	7.778417	96	0 - 500	0.0093	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	17489.31	8.941633	20215.46	8.93235	87	0 - 500	0.0093	+/-0.50	
M7PFUdA-EIS	34712.88	8.741667	44266.17	8.732417	78	0 - 500	0.0092	+/-0.50	
M6PFDA-EIS	22860.34	8.280334	25508.49	8.270733	90	0 - 500	0.0096	+/-0.50	
M5PFHxA-EIS	91875.39	5.647333	99602.13	5.647333	92	0 - 500	0.0000	+/-0.50	
M4PFHpA-EIS	21132.69	6.45245	22985.3	6.45245	92	0 - 500	0.0000	+/-0.50	
M3PFHxS-EIS	13930.19	6.5622	15322.08	6.5622	91	0 - 500	0.0000	+/-0.50	
M3PFBS-EIS	19113.37	4.780383	21668.87	4.798817	88	0 - 500	-0.0184	+/-0.50	
M3-HFPO-DA-EIS	54293.54	5.910617	63320.14	5.91985	86	0 - 500	-0.0092	+/-0.50	
M2PFTeDA-EIS	14709.35	9.75895	24910.23	9.74035	59	0 - 500	0.0186	+/-0.50	
M2-8-2FTS-EIS	20683.37	8.260667	23459.9	8.251384	88	0 - 500	0.0093	+/-0.50	
M2-6-2FTS-EIS	15320.69	7.0909	17070.21	7.0909	90	0 - 500	0.0000	+/-0.50	
M2-4-2FTS-EIS	32047.88	5.57975	33600.83	5.588984	95	0 - 500	-0.0092	+/-0.50	
d9-NEtFOSE-EIS	7832.005	10.02018	17499.77	10.00175	45	0 - 500	0.0184	+/-0.50	
d7-NMeFOSE-EIS	12409.54	9.770984	21904.94	9.76175	57	0 - 500	0.0092	+/-0.50	
d5-NEtFOSA-EIS	1460.411	10.03292	2620.645	10.0237	56	0 - 500	0.0092	+/-0.50	
d5-N-EtFOSAA-EIS	22301.83	8.712883	27885.45	8.703617	80	0 - 500	0.0093	+/-0.50	
d3-NMeFOSA-EIS	2312.814	9.775567	3386.998	9.766334	68	0 - 500	0.0092	+/-0.50	
d3-N-MeFOSAA-EIS	26902.79	8.490684	33482.72	8.481417	80	0 - 500	0.0093	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
VE 1-4 (23C0686-01)			Lab File ID: QQQ25151.d			Analyzed: 03/15/23 20:26			
M3PFBA	55173.82	1.014317	57851.47	1.05105	95	50 - 150	-0.0367	+/-0.50	
MPFDA	16693.02	8.27115	20308.41	8.27115	82	50 - 150	0.0000	+/-0.50	
MPFHxA	47558.19	5.6195	72968.52	5.648417	65	50 - 150	-0.0289	+/-0.50	
MPFHxS	4602.911	6.543217	5197.313	6.561733	89	50 - 150	-0.0185	+/-0.50	
MPFNA	21852.35	7.723417	24470.14	7.7424	89	50 - 150	-0.0190	+/-0.50	
MPFOA	49785.11	7.1109	62068.04	7.1294	80	50 - 150	-0.0185	+/-0.50	
MPFOS	11791.03	7.768933	13259.69	7.7788	89	50 - 150	-0.0099	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	5665.778	7.72295	7236.596	7.741967	78	0 - 500	-0.0190	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	44226.44	7.1104	55951	7.1289	79	0 - 500	-0.0185	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	129572.2	3.906567	154109.5	3.9801	84	0 - 500	-0.0735	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	186345.3	1.012033	204443.7	1.057933	91	0 - 500	-0.0459	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	29941.66	9.122084	40298.55	9.122084	74	0 - 500	0.0000	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	5682.016	7.7685	7070.794	7.778417	80	0 - 500	-0.0099	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	19521.96	8.941633	20215.46	8.93235	97	0 - 500	0.0093	+/-0.50	
M7PFUdA-EIS	34447.88	8.732417	44266.17	8.732417	78	0 - 500	0.0000	+/-0.50	
M6PFDA-EIS	22457.82	8.27075	25508.49	8.270733	88	0 - 500	0.0000	+/-0.50	
M5PFHxA-EIS	62484.2	5.62885	99602.13	5.647333	63	0 - 500	-0.0185	+/-0.50	
M4PFHpA-EIS	11347.03	6.4336	22985.3	6.45245	49	0 - 500	-0.0188	+/-0.50	
M3PFHxS-EIS	11184.87	6.543667	15322.08	6.5622	73	0 - 500	-0.0185	+/-0.50	
M3PFBS-EIS	16954.19	4.7435	21668.87	4.798817	78	0 - 500	-0.0553	+/-0.50	
M3-HFPO-DA-EIS	36818.98	5.901333	63320.14	5.91985	58	0 - 500	-0.0185	+/-0.50	
M2PFTeDA-EIS	17620.17	9.7496	24910.23	9.74035	71	0 - 500	0.0092	+/-0.50	
M2-8-2FTS-EIS	59565.43	8.2514	23459.9	8.251384	254	0 - 500	0.0000	+/-0.50	
M2-6-2FTS-EIS	57806.39	7.0724	17070.21	7.0909	339	0 - 500	-0.0185	+/-0.50	
M2-4-2FTS-EIS	98661.99	5.561283	33600.83	5.588984	294	0 - 500	-0.0277	+/-0.50	
d9-NEtFOSE-EIS	10855.27	10.02018	17499.77	10.00175	62	0 - 500	0.0184	+/-0.50	
d7-NMeFOSE-EIS	13530.21	9.780216	21904.94	9.76175	62	0 - 500	0.0185	+/-0.50	
d5-NEtFOSA-EIS	1495.872	10.03292	2620.645	10.0237	57	0 - 500	0.0092	+/-0.50	
d5-N-EtFOSAA-EIS	32939.23	8.703617	27885.45	8.703617	118	0 - 500	0.0000	+/-0.50	
d3-NMeFOSA-EIS	1962.47	9.775567	3386.998	9.766334	58	0 - 500	0.0092	+/-0.50	
d3-N-MeFOSAA-EIS	36612.04	8.481433	33482.72	8.481417	109	0 - 500	0.0000	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (BC30953-DUP1)			Lab File ID: QQQ25152.d			Analyzed: 03/15/23 20:42			
M3PFBA	54772.64	1.0235	57851.47	1.05105	95	50 - 150	-0.0276	+/-0.50	
MPFDA	17701.58	8.317833	20308.41	8.27115	87	50 - 150	0.0467	+/-0.50	
MPFHxA	48601.54	5.639167	72968.52	5.648417	67	50 - 150	-0.0093	+/-0.50	
MPFHxS	4741.088	6.571	5197.313	6.561733	91	50 - 150	0.0093	+/-0.50	
MPFNA	21023.67	7.7702	24470.14	7.7424	86	50 - 150	0.0278	+/-0.50	
MPFOA	53533.76	7.157367	62068.04	7.1294	86	50 - 150	0.0280	+/-0.50	
MPFOS	10881.77	7.815933	13259.69	7.7788	82	50 - 150	0.0371	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	6056.802	7.769783	7236.596	7.741967	84	0 - 500	0.0278	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	46655.06	7.156883	55951	7.1289	83	0 - 500	0.0280	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	139854.1	3.93415	154109.5	3.9801	91	0 - 500	-0.0460	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	199184.9	1.030383	204443.7	1.057933	97	0 - 500	-0.0276	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	35867.03	9.131383	40298.55	9.122084	89	0 - 500	0.0093	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	7042.684	7.81555	7070.794	7.778417	100	0 - 500	0.0371	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	20594.83	8.97055	20215.46	8.93235	102	0 - 500	0.0382	+/-0.50	
M7PFUdA-EIS	37590.31	8.769484	44266.17	8.732417	85	0 - 500	0.0371	+/-0.50	
M6PFDA-EIS	25811.91	8.317416	25508.49	8.270733	101	0 - 500	0.0467	+/-0.50	
M5PFHxA-EIS	68558.55	5.638083	99602.13	5.647333	69	0 - 500	-0.0092	+/-0.50	
M4PFHpA-EIS	12332.51	6.461717	22985.3	6.45245	54	0 - 500	0.0093	+/-0.50	
M3PFHxS-EIS	12467.18	6.571466	15322.08	6.5622	81	0 - 500	0.0093	+/-0.50	
M3PFBS-EIS	17922.84	4.771167	21668.87	4.798817	83	0 - 500	-0.0276	+/-0.50	
M3-HFPO-DA-EIS	38381.28	5.910617	63320.14	5.91985	61	0 - 500	-0.0092	+/-0.50	
M2PFTeDA-EIS	17726.17	9.712633	24910.23	9.74035	71	0 - 500	-0.0277	+/-0.50	
M2-8-2FTS-EIS	62835.98	8.298034	23459.9	8.251384	268	0 - 500	0.0466	+/-0.50	
M2-6-2FTS-EIS	63847.02	7.1094	17070.21	7.0909	374	0 - 500	0.0185	+/-0.50	
M2-4-2FTS-EIS	108455.5	5.57975	33600.83	5.588984	323	0 - 500	-0.0092	+/-0.50	
d9-NEtFOSE-EIS	10452.16	9.983117	17499.77	10.00175	60	0 - 500	-0.0186	+/-0.50	
d7-NMeFOSE-EIS	14406.03	9.751966	21904.94	9.76175	66	0 - 500	-0.0098	+/-0.50	
d5-NEtFOSA-EIS	1401.335	9.996067	2620.645	10.0237	53	0 - 500	-0.0276	+/-0.50	
d5-N-EtFOSAA-EIS	34980.56	8.7407	27885.45	8.703617	125	0 - 500	0.0371	+/-0.50	
d3-NMeFOSA-EIS	2107.597	9.748083	3386.998	9.766334	62	0 - 500	-0.0183	+/-0.50	
d3-N-MeFOSAA-EIS	38831.12	8.519083	33482.72	8.481417	116	0 - 500	0.0377	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
VE 2-1 (23C0686-02)			Lab File ID: QQQ25153.d			Analyzed: 03/15/23 20:58			
M3PFBA	54198.69	1.0235	57851.47	1.05105	94	50 - 150	-0.0276	+/-0.50	
MPFDA	19049.05	8.290033	20308.41	8.27115	94	50 - 150	0.0189	+/-0.50	
MPFHxA	58655.83	5.667217	72968.52	5.648417	80	50 - 150	0.0188	+/-0.50	
MPFHxS	5006.794	6.58025	5197.313	6.561733	96	50 - 150	0.0185	+/-0.50	
MPFNA	23598.59	7.751667	24470.14	7.7424	96	50 - 150	0.0093	+/-0.50	
MPFOA	54482.18	7.148117	62068.04	7.1294	88	50 - 150	0.0187	+/-0.50	
MPFOS	11638.43	7.788084	13259.69	7.7788	88	50 - 150	0.0093	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	5456.937	7.7605	7236.596	7.741967	75	0 - 500	0.0185	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	45175.07	7.147634	55951	7.1289	81	0 - 500	0.0187	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	127073.7	3.970917	154109.5	3.9801	82	0 - 500	-0.0092	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	179302.1	1.021217	204443.7	1.057933	88	0 - 500	-0.0367	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	30589.17	9.140634	40298.55	9.122084	76	0 - 500	0.0186	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	5475.725	7.796983	7070.794	7.778417	77	0 - 500	0.0186	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	16966.54	8.961284	20215.46	8.93235	84	0 - 500	0.0289	+/-0.50	
M7PFUdA-EIS	33538.74	8.750934	44266.17	8.732417	76	0 - 500	0.0185	+/-0.50	
M6PFDA-EIS	20211.39	8.298866	25508.49	8.270733	79	0 - 500	0.0281	+/-0.50	
M5PFHxA-EIS	67228.77	5.6662	99602.13	5.647333	67	0 - 500	0.0189	+/-0.50	
M4PFHpA-EIS	12936.54	6.470984	22985.3	6.45245	56	0 - 500	0.0185	+/-0.50	
M3PFHxS-EIS	11234.01	6.57145	15322.08	6.5622	73	0 - 500	0.0092	+/-0.50	
M3PFBS-EIS	16960.61	4.80805	21668.87	4.798817	78	0 - 500	0.0092	+/-0.50	
M3-HFPO-DA-EIS	39336.45	5.929083	63320.14	5.91985	62	0 - 500	0.0092	+/-0.50	
M2PFTeDA-EIS	17104.44	9.768184	24910.23	9.74035	69	0 - 500	0.0278	+/-0.50	
M2-8-2FTS-EIS	33724.96	8.269934	23459.9	8.251384	144	0 - 500	0.0185	+/-0.50	
M2-6-2FTS-EIS	44923.43	7.10015	17070.21	7.0909	263	0 - 500	0.0092	+/-0.50	
M2-4-2FTS-EIS	91318.64	5.607433	33600.83	5.588984	272	0 - 500	0.0184	+/-0.50	
d9-NEtFOSE-EIS	8850.668	10.0294	17499.77	10.00175	51	0 - 500	0.0277	+/-0.50	
d7-NMeFOSE-EIS	11813.72	9.790083	21904.94	9.76175	54	0 - 500	0.0283	+/-0.50	
d5-NEtFOSA-EIS	1347.382	10.04215	2620.645	10.0237	51	0 - 500	0.0184	+/-0.50	
d5-N-EtFOSAA-EIS	26941.86	8.72215	27885.45	8.703617	97	0 - 500	0.0185	+/-0.50	
d3-NMeFOSA-EIS	2087.227	9.7848	3386.998	9.766334	62	0 - 500	0.0185	+/-0.50	
d3-N-MeFOSAA-EIS	29168.16	8.49995	33482.72	8.481417	87	0 - 500	0.0185	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
030923 DUP (23C0686-04)			Lab File ID: QQQ25155.d			Analyzed: 03/15/23 21:30			
M3PFBA	54121.3	1.0235	57851.47	1.05105	94	50 - 150	-0.0276	+/-0.50	
MPFDA	17834.7	8.280784	20308.41	8.27115	88	50 - 150	0.0096	+/-0.50	
MPFHxA	46960.97	5.639184	72968.52	5.648417	64	50 - 150	-0.0092	+/-0.50	
MPFHxS	4737.7	6.552484	5197.313	6.561733	91	50 - 150	-0.0092	+/-0.50	
MPFNA	22870.13	7.742417	24470.14	7.7424	93	50 - 150	0.0000	+/-0.50	
MPFOA	50766.33	7.1294	62068.04	7.1294	82	50 - 150	0.0000	+/-0.50	
MPFOS	11385.13	7.778817	13259.69	7.7788	86	50 - 150	0.0000	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	6140.615	7.741983	7236.596	7.741967	85	0 - 500	0.0000	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	47680.89	7.1289	55951	7.1289	85	0 - 500	0.0000	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	132337.6	3.93415	154109.5	3.9801	86	0 - 500	-0.0460	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	194198.8	1.021217	204443.7	1.057933	95	0 - 500	-0.0367	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	34436.36	9.149933	40298.55	9.122084	85	0 - 500	0.0278	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	6190.068	7.77845	7070.794	7.778417	88	0 - 500	0.0000	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	20372.74	8.9613	20215.46	8.93235	101	0 - 500	0.0290	+/-0.50	
M7PFUdA-EIS	35485.43	8.75095	44266.17	8.732417	80	0 - 500	0.0185	+/-0.50	
M6PFDA-EIS	24045.44	8.28035	25508.49	8.270733	94	0 - 500	0.0096	+/-0.50	
M5PFHxA-EIS	62633.92	5.6381	99602.13	5.647333	63	0 - 500	-0.0092	+/-0.50	
M4PFHpA-EIS	12978.29	6.452466	22985.3	6.45245	56	0 - 500	0.0000	+/-0.50	
M3PFHxS-EIS	12160.09	6.55295	15322.08	6.5622	79	0 - 500	-0.0092	+/-0.50	
M3PFBS-EIS	17099.17	4.771167	21668.87	4.798817	79	0 - 500	-0.0276	+/-0.50	
M3-HFPO-DA-EIS	33069.65	5.910617	63320.14	5.91985	52	0 - 500	-0.0092	+/-0.50	
M2PFTeDA-EIS	18898.96	9.78675	24910.23	9.74035	76	0 - 500	0.0464	+/-0.50	
M2-8-2FTS-EIS	62808.23	8.260683	23459.9	8.251384	268	0 - 500	0.0093	+/-0.50	
M2-6-2FTS-EIS	60964.48	7.081666	17070.21	7.0909	357	0 - 500	-0.0092	+/-0.50	
M2-4-2FTS-EIS	106225	5.57975	33600.83	5.588984	316	0 - 500	-0.0092	+/-0.50	
d9-NEtFOSE-EIS	10210.04	10.05708	17499.77	10.00175	58	0 - 500	0.0553	+/-0.50	
d7-NMeFOSE-EIS	14097.92	9.817783	21904.94	9.76175	64	0 - 500	0.0560	+/-0.50	
d5-NEtFOSA-EIS	1584.455	10.06982	2620.645	10.0237	60	0 - 500	0.0461	+/-0.50	
d5-N-EtFOSAA-EIS	35052.88	8.722167	27885.45	8.703617	126	0 - 500	0.0186	+/-0.50	
d3-NMeFOSA-EIS	2347.181	9.812233	3386.998	9.766334	69	0 - 500	0.0459	+/-0.50	
d3-N-MeFOSAA-EIS	37552.66	8.4907	33482.72	8.481417	112	0 - 500	0.0093	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Sequence: S3C1630
Instrument: LCQQQ
Calibration: SC30008

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
VE 4-11 (23C0686-03)			Lab File ID: QQQ25184.d			Analyzed: 03/16/23 10:30			
M3PFBA	39532.41	1.0235	64915.08	1.106117	61	50 - 150	-0.0826	+/-0.50	
MPFDA	16899.33	8.139883	23313.92	8.271167	72	50 - 150	-0.1313	+/-0.50	
MPFHxA	31002.98	5.759717	81839.34	5.7967	38	50 - 150	-0.0370	+/-0.50	*
MPFHxS	4216.178	6.719733	6041.915	6.654567	70	50 - 150	0.0652	+/-0.50	
MPFNA	20810.91	7.71415	27925.76	7.760933	75	50 - 150	-0.0468	+/-0.50	
MPFOA	41964.45	7.240617	71077.34	7.185117	59	50 - 150	0.0555	+/-0.50	
MPFOS	10756.06	7.741117	14925.85	7.797367	72	50 - 150	-0.0563	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	5213.498	7.713683	8119.769	7.751233	64	0 - 500	-0.0376	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	35554.46	7.240133	62755.11	7.184633	57	0 - 500	0.0555	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	81943.41	3.93415	167768.4	4.154733	49	0 - 500	-0.2206	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	129142.2	1.030383	223253.4	1.113017	58	0 - 500	-0.0826	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	30045.46	8.908067	47034.52	9.10355	64	0 - 500	-0.1955	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	5855.806	7.740684	7611.968	7.796983	77	0 - 500	-0.0563	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	19604.19	8.763967	24176.88	8.923083	81	0 - 500	-0.1591	+/-0.50	
M7PFUdA-EIS	35052.47	8.5378	49142.16	8.713883	71	0 - 500	-0.1761	+/-0.50	
M6PFDA-EIS	21180.79	8.139517	30829.25	8.27075	69	0 - 500	-0.1312	+/-0.50	
M5PFHxA-EIS	39373.09	5.758683	105839.1	5.804934	37	0 - 500	-0.0463	+/-0.50	
M4PFHpA-EIS	8008.335	6.619467	24633.63	6.554317	33	0 - 500	0.0652	+/-0.50	
M3PFHxS-EIS	10515.77	6.720267	16756.08	6.65505	63	0 - 500	0.0652	+/-0.50	
M3PFBS-EIS	14716.05	4.8357	24382.14	4.9839	60	0 - 500	-0.1482	+/-0.50	
M3-HFPO-DA-EIS	27438.8	6.049167	63783.43	6.0584	43	0 - 500	-0.0092	+/-0.50	
M2PFTeDA-EIS	17487.52	9.555433	27819.83	9.731116	63	0 - 500	-0.1757	+/-0.50	
M2-8-2FTS-EIS	77617.83	8.129517	58403.96	8.2514	133	0 - 500	-0.1219	+/-0.50	
M2-6-2FTS-EIS	65098.38	7.20215	27836.8	7.14665	234	0 - 500	0.0555	+/-0.50	
M2-4-2FTS-EIS	85474.33	5.70215	50039.61	5.7484	171	0 - 500	-0.0463	+/-0.50	
d9-NEtFOSE-EIS	8582.86	9.844367	13397.15	9.992534	64	0 - 500	-0.1482	+/-0.50	
d7-NMeFOSE-EIS	11528.37	9.594767	16947.79	9.751966	68	0 - 500	-0.1572	+/-0.50	
d5-NEtFOSA-EIS	151.302	10.18922	2200.568	10.00528	7	0 - 500	0.1839	+/-0.50	
d5-N-EtFOSAA-EIS	35710.95	8.518283	38144.24	8.694366	94	0 - 500	-0.1761	+/-0.50	
d3-NMeFOSA-EIS	1995.581	9.590867	3024.631	9.748067	66	0 - 500	-0.1572	+/-0.50	
d3-N-MeFOSAA-EIS	38399.08	8.31465	44075.15	8.472183	87	0 - 500	-0.1575	+/-0.50	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 1-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-01	File ID:	QQQ25151.d
Sampled:	03/09/23 10:27	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 20:26
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	280.55 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	7.76	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	6.84	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	7.72	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	4.62	
335-67-1	Perfluorooctanoic acid (PFOA)	1	7.01	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	24.1	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.23	J
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.56	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.56	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.56	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.56	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.56	U
2355-31-9	N-MeFOSAA	1	3.56	U
2991-50-6	N-EtFOSAA	1	3.56	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	12.4	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.56	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.40	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.44	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	13.5	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	13.7	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.20	J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.34	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.13	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.13	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.13	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.35	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.4	U
13252-13-6	HFPO-DA (Gen-X)	1	14.3	U
763051-92-9	11CL-PF3OUdS	1	13.5	U
756426-58-1	9CL-PF3ONS	1	13.3	U
919005-14-4	ADONA	1	13.5	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.46	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.42	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	8.91	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	44.6	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	44.6	U
24448-09-7	N-MeFOSE	1	35.6	U
31506-32-8	N-MeFOSA	1	3.56	U
1691-99-2	N-EtFOSE	1	35.6	U
4151-50-2	N-EtFOSA	1	3.56	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 1-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-01	File ID:	QQQ25151.d
Sampled:	03/09/23 10:27	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 20:26
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	280.55 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	41.5	43.7	105	25 - 150	
M5PFHxA	44.6	49.0	110	25 - 150	
M4PFHpA	44.6	37.9	85.0	25 - 150	
M3PFHxS	42.2	44.1	104	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	44.6	49.7	112	25 - 150	
M6PFDA	22.3	25.9	116	25 - 150	
M7PFUdA	22.3	23.7	106	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.3	20.9	93.7	25 - 150	
M2PFTeDA	22.3	21.1	94.6	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	178	188	105	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	42.7	44.3	104	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	89.1	130	146	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	44.6	56.6	127	10 - 150	
d3-N-MeFOSAA	89.1	117	131	25 - 150	
d5-N-EtFOSAA	89.1	121	136	25 - 150	
M2-6:2 FTS	84.7	346	408	25 - 200	*
M2-8:2 FTS	85.5	239	279	25 - 200	*
M9PFNA	22.3	24.4	110	25 - 150	
M2-4:2 FTS	83.6	322	386	25 - 150	*
d-N-MeFOSA	44.6	37.0	83.1	25 - 150	
d-N-EtFOSA	44.6	43.8	98.3	25 - 150	
M3HFPO-DA	178	198	111	25 - 150	
d9-N-EtFOSE	446	625	140	25 - 150	
d7-N-MeFOSE	446	610	137	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	55173.82	1.014317	57851.47	1.05105	
MPFDA	16693.02	8.27115	20308.41	8.27115	
MPFHxA	47558.19	5.6195	72968.52	5.648417	
MPFHxS	4602.911	6.543217	5197.313	6.561733	
MPFNA	21852.35	7.723417	24470.14	7.7424	
MPFOA	49785.11	7.1109	62068.04	7.1294	
MPFOS	11791.03	7.768933	13259.69	7.7788	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5665.778	7.72295	7236.596	7.741967	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	44226.44	7.1104	55951	7.1289	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	129572.2	3.906567	154109.5	3.9801	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	186345.3	1.012033	204443.7	1.057933	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	29941.66	9.122084	40298.55	9.122084	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	5682.016	7.7685	7070.794	7.778417	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	19521.96	8.941633	20215.46	8.93235	
M7PFUdA-EIS	34447.88	8.732417	44266.17	8.732417	
M6PFDA-EIS	22457.82	8.27075	25508.49	8.270733	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 1-4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23C0686

Client: Metro North Commuter Railroad Project: 23-3685m

Matrix: Water Laboratory ID: 23C0686-01 File ID: QQQ25151.d

Sampled: 03/09/23 10:27 Prepared: 03/14/23 13:32 Analyzed: 03/15/23 20:26

Solids: Preparation: EPA 1633 Prep Initial/Final: 280.55 mL / 5 mL

Batch: BC30953 Sequence: S3C1630 Calibration: SC30008 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	62484.2	5.62885	99602.13	5.647333	
M4PFHpA-EIS	11347.03	6.4336	22985.3	6.45245	
M3PFHxS-EIS	11184.87	6.543667	15322.08	6.5622	
M3PFBS-EIS	16954.19	4.7435	21668.87	4.798817	
M3-HFPO-DA-EIS	36818.98	5.901333	63320.14	5.91985	
M2PFTeDA-EIS	17620.17	9.7496	24910.23	9.74035	
M2-8-2FTS-EIS	59565.43	8.2514	23459.9	8.251384	*
M2-6-2FTS-EIS	57806.39	7.0724	17070.21	7.0909	*
M2-4-2FTS-EIS	98661.99	5.561283	33600.83	5.588984	*
d9-NEtFOSE-EIS	10855.27	10.02018	17499.77	10.00175	
d7-NMeFOSE-EIS	13530.21	9.780216	21904.94	9.76175	
d5-NEtFOSA-EIS	1495.872	10.03292	2620.645	10.0237	
d5-N-EtFOSAA-EIS	32939.23	8.703617	27885.45	8.703617	
d3-NMeFOSA-EIS	1962.47	9.775567	3386.998	9.766334	
d3-N-MeFOSAA-EIS	36612.04	8.481433	33482.72	8.481417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 2-1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-02	File ID:	QQQ25153.d
Sampled:	03/09/23 14:25	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 20:58
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	281.06 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.965	J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.803	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	3.56	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	8.79	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.844	J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	33.5	
375-95-1	Perfluorononanoic acid (PFNA)	1	3.56	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.56	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.56	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.56	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.56	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.56	U
2355-31-9	N-MeFOSAA	1	3.56	U
2991-50-6	N-EtFOSAA	1	3.56	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.986	J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.56	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.40	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.43	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	13.5	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	13.7	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	14.2	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.33	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.12	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.12	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.12	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.34	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.3	U
13252-13-6	HFPO-DA (Gen-X)	1	14.2	U
763051-92-9	11CL-PF3OUdS	1	13.4	U
756426-58-1	9CL-PF3ONS	1	13.3	U
919005-14-4	ADONA	1	13.4	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.45	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.42	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	8.89	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	44.5	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	44.5	U
24448-09-7	N-MeFOSE	1	35.6	U
31506-32-8	N-MeFOSA	1	3.56	U
1691-99-2	N-EtFOSE	1	35.6	U
4151-50-2	N-EtFOSA	1	3.56	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 2-1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-02	File ID:	QQQ25153.d
Sampled:	03/09/23 14:25	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 20:58
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	281.06 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	41.5	40.1	96.8	25 - 150	
M5PFHxA	44.5	42.6	95.9	25 - 150	
M4PFHpA	44.5	34.9	78.5	25 - 150	
M3PFHxS	42.2	40.6	96.4	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	44.5	46.3	104	25 - 150	
M6PFDA	22.2	20.4	91.5	25 - 150	
M7PFUdA	22.2	20.2	90.7	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.2	18.7	83.9	25 - 150	
M2PFTeDA	22.2	17.9	80.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	178	183	103	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	42.6	43.2	101	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	88.9	103	116	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	44.5	49.8	112	10 - 150	
d3-N-MeFOSAA	88.9	93.1	105	25 - 150	
d5-N-EtFOSAA	88.9	100	113	25 - 150	
M2-6:2 FTS	84.6	247	292	25 - 200	*
M2-8:2 FTS	85.4	124	145	25 - 200	
M9PFNA	22.2	21.8	97.8	25 - 150	
M2-4:2 FTS	83.4	274	328	25 - 150	*
d-N-MeFOSA	44.5	39.7	89.2	25 - 150	
d-N-EtFOSA	44.5	39.9	89.7	25 - 150	
M3HFPO-DA	178	171	96.0	25 - 150	
d9-N-EtFOSE	445	515	116	25 - 150	
d7-N-MeFOSE	445	533	120	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	54198.69	1.0235	57851.47	1.05105	
MPFDA	19049.05	8.290033	20308.41	8.27115	
MPFHxA	58655.83	5.667217	72968.52	5.648417	
MPFHxS	5006.794	6.58025	5197.313	6.561733	
MPFNA	23598.59	7.751667	24470.14	7.7424	
MPFOA	54482.18	7.148117	62068.04	7.1294	
MPFOS	11638.43	7.788084	13259.69	7.7788	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5456.937	7.7605	7236.596	7.741967	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	45175.07	7.147634	55951	7.1289	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	127073.7	3.970917	154109.5	3.9801	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	179302.1	1.021217	204443.7	1.057933	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	30589.17	9.140634	40298.55	9.122084	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	5475.725	7.796983	7070.794	7.778417	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	16966.54	8.961284	20215.46	8.93235	
M7PFUdA-EIS	33538.74	8.750934	44266.17	8.732417	
M6PFDA-EIS	20211.39	8.298866	25508.49	8.270733	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 2-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23C0686

Client: Metro North Commuter Railroad Project: 23-3685m

Matrix: Water Laboratory ID: 23C0686-02 File ID: QQQ25153.d

Sampled: 03/09/23 14:25 Prepared: 03/14/23 13:32 Analyzed: 03/15/23 20:58

Solids: Preparation: EPA 1633 Prep Initial/Final: 281.06 mL / 5 mL

Batch: BC30953 Sequence: S3C1630 Calibration: SC30008 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	67228.77	5.6662	99602.13	5.647333	
M4PFHpA-EIS	12936.54	6.470984	22985.3	6.45245	
M3PFHxS-EIS	11234.01	6.57145	15322.08	6.5622	
M3PFBS-EIS	16960.61	4.80805	21668.87	4.798817	
M3-HFPO-DA-EIS	39336.45	5.929083	63320.14	5.91985	
M2PFTeDA-EIS	17104.44	9.768184	24910.23	9.74035	
M2-8-2FTS-EIS	33724.96	8.269934	23459.9	8.251384	
M2-6-2FTS-EIS	44923.43	7.10015	17070.21	7.0909	*
M2-4-2FTS-EIS	91318.64	5.607433	33600.83	5.588984	*
d9-NEtFOSE-EIS	8850.668	10.0294	17499.77	10.00175	
d7-NMeFOSE-EIS	11813.72	9.790083	21904.94	9.76175	
d5-NEtFOSA-EIS	1347.382	10.04215	2620.645	10.0237	
d5-N-EtFOSAA-EIS	26941.86	8.72215	27885.45	8.703617	
d3-NMeFOSA-EIS	2087.227	9.7848	3386.998	9.766334	
d3-N-MeFOSAA-EIS	29168.16	8.49995	33482.72	8.481417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 4-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-03	File ID:	QQQ25184.d
Sampled:	03/09/23 11:57	Prepared:	03/14/23 13:32	Analyzed:	03/16/23 10:30
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	276.87 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.20	J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.731	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	3.61	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	4.32	
335-67-1	Perfluorooctanoic acid (PFOA)	1	3.61	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	3.36	U
375-95-1	Perfluorononanoic acid (PFNA)	1	3.61	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.61	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.61	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.61	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.61	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.61	U
2355-31-9	N-MeFOSAA	1	3.61	U
2991-50-6	N-EtFOSAA	1	3.61	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.416	J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.61	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.45	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.49	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	13.7	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	13.9	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	14.4	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.43	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.22	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.22	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.22	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.40	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.5	U
13252-13-6	HFPO-DA (Gen-X)	1	14.4	U
763051-92-9	11CL-PF3OUdS	1	13.7	U
756426-58-1	9CL-PF3ONS	1	13.5	U
919005-14-4	ADONA	1	13.7	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.50	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.47	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	9.03	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	45.1	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	45.1	U
24448-09-7	N-MeFOSE	1	36.1	U
31506-32-8	N-MeFOSA	1	3.61	U
1691-99-2	N-EtFOSE	1	36.1	U
4151-50-2	N-EtFOSA	1	3.61	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 4-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-03	File ID:	QQQ25184.d
Sampled:	03/09/23 11:57	Prepared:	03/14/23 13:32	Analyzed:	03/16/23 10:30
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	276.87 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	42.1	42.0	99.8	25 - 150	
M5PFHxA	45.1	48.0	106	25 - 150	
M4PFHpA	45.1	41.5	92.0	25 - 150	
M3PFHxS	42.8	45.6	107	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.1	48.0	106	25 - 150	
M6PFDA	22.6	24.4	108	25 - 150	
M7PFUdA	22.6	24.1	107	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.6	21.0	92.9	25 - 150	
M2PFTeDA	22.6	20.9	92.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	181	184	102	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	43.3	50.6	117	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.3	128	142	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.1	63.1	140	10 - 150	
d3-N-MeFOSAA	90.3	136	150	25 - 150	
d5-N-EtFOSAA	90.3	146	161	25 - 150	*
M2-6:2 FTS	85.9	431	502	25 - 200	*
M2-8:2 FTS	86.7	344	397	25 - 200	*
M9PFNA	22.6	23.9	106	25 - 150	
M2-4:2 FTS	84.7	309	365	25 - 150	*
d-N-MeFOSA	45.1	41.3	91.5	25 - 150	
d-N-EtFOSA	45.1	42.2	93.4	25 - 150	
M3HFPO-DA	181	230	127	25 - 150	
d9-N-EtFOSE	451	549	121	25 - 150	
d7-N-MeFOSE	451	571	126	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	39532.41	1.0235	64915.08	1.106117	
MPFDA	16899.33	8.139883	23313.92	8.271167	
MPFHxA	31002.98	5.759717	81839.34	5.7967	*
MPFHxS	4216.178	6.719733	6041.915	6.654567	
MPFNA	20810.91	7.71415	27925.76	7.760933	
MPFOA	41964.45	7.240617	71077.34	7.185117	
MPFOS	10756.06	7.741117	14925.85	7.797367	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5213.498	7.713683	8119.769	7.751233	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	35554.46	7.240133	62755.11	7.184633	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	81943.41	3.93415	167768.4	4.154733	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	129142.2	1.030383	223253.4	1.113017	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	30045.46	8.908067	47034.52	9.10355	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	5855.806	7.740684	7611.968	7.796983	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	19604.19	8.763967	24176.88	8.923083	
M7PFUdA-EIS	35052.47	8.5378	49142.16	8.713883	
M6PFDA-EIS	21180.79	8.139517	30829.25	8.27075	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

VE 4-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-03	File ID:	QQQ25184.d
Sampled:	03/09/23 11:57	Prepared:	03/14/23 13:32	Analyzed:	03/16/23 10:30
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	276.87 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	39373.09	5.758683	105839.1	5.804934	
M4PFHpA-EIS	8008.335	6.619467	24633.63	6.554317	
M3PFHxS-EIS	10515.77	6.720267	16756.08	6.65505	
M3PFBS-EIS	14716.05	4.8357	24382.14	4.9839	
M3-HFPO-DA-EIS	27438.8	6.049167	63783.43	6.0584	
M2PFTeDA-EIS	17487.52	9.555433	27819.83	9.731116	
M2-8-2FTS-EIS	77617.83	8.129517	58403.96	8.2514	
M2-6-2FTS-EIS	65098.38	7.20215	27836.8	7.14665	*
M2-4-2FTS-EIS	85474.33	5.70215	50039.61	5.7484	*
d9-NEtFOSE-EIS	8582.86	9.844367	13397.15	9.992534	
d7-NMeFOSE-EIS	11528.37	9.594767	16947.79	9.751966	
d5-NEtFOSA-EIS	151.302	10.18922	2200.568	10.00528	*
d5-N-EtFOSAA-EIS	35710.95	8.518283	38144.24	8.694366	
d3-NMeFOSA-EIS	1995.581	9.590867	3024.631	9.748067	
d3-N-MeFOSAA-EIS	38399.08	8.31465	44075.15	8.472183	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 DUP

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-04	File ID:	QQQ25155.d
Sampled:	03/09/23 10:28	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 21:30
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	276.96 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	7.10	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	7.64	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	7.35	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	4.43	
335-67-1	Perfluorooctanoic acid (PFOA)	1	6.16	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	22.7	
375-95-1	Perfluorononanoic acid (PFNA)	1	3.61	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.61	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.61	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.61	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.61	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.61	U
2355-31-9	N-MeFOSAA	1	3.61	U
2991-50-6	N-EtFOSAA	1	3.61	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	11.8	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.61	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.45	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.48	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	13.7	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	13.9	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	11.1	J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.43	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.22	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.22	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.22	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.39	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.5	U
13252-13-6	HFPO-DA (Gen-X)	1	14.4	U
763051-92-9	11CL-PF3OUdS	1	13.6	U
756426-58-1	9CL-PF3ONS	1	13.5	U
919005-14-4	ADONA	1	13.6	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.50	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.47	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	9.03	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	45.1	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	45.1	U
24448-09-7	N-MeFOSE	1	36.1	U
31506-32-8	N-MeFOSA	1	3.61	U
1691-99-2	N-EtFOSE	1	36.1	U
4151-50-2	N-EtFOSA	1	3.61	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 DUP

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-04	File ID:	QQQ25155.d
Sampled:	03/09/23 10:28	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 21:30
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	276.96 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	42.1	43.4	103	25 - 150	
M5PFHxA	45.1	50.4	112	25 - 150	
M4PFHpA	45.1	44.4	98.4	25 - 150	
M3PFHxS	42.8	47.2	110	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.1	53.2	118	25 - 150	
M6PFDA	22.6	26.3	116	25 - 150	
M7PFUdA	22.6	23.2	103	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	22.6	22.8	101	25 - 150	
M2PFTeDA	22.6	21.4	95.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	181	202	112	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	43.2	50.5	117	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.3	137	151	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.1	62.0	137	10 - 150	
d3-N-MeFOSAA	90.3	125	139	25 - 150	
d5-N-EtFOSAA	90.3	135	150	25 - 150	
M2-6:2 FTS	85.8	359	418	25 - 200	*
M2-8:2 FTS	86.7	247	286	25 - 200	*
M9PFNA	22.6	25.6	114	25 - 150	
M2-4:2 FTS	84.7	342	403	25 - 150	*
d-N-MeFOSA	45.1	46.1	102	25 - 150	
d-N-EtFOSA	45.1	48.6	108	25 - 150	
M3HFPO-DA	181	182	101	25 - 150	
d9-N-EtFOSE	451	617	137	25 - 150	
d7-N-MeFOSE	451	659	146	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	54121.3	1.0235	57851.47	1.05105	
MPFDA	17834.7	8.280784	20308.41	8.27115	
MPFHxA	46960.97	5.639184	72968.52	5.648417	
MPFHxS	4737.7	6.552484	5197.313	6.561733	
MPFNA	22870.13	7.742417	24470.14	7.7424	
MPFOA	50766.33	7.1294	62068.04	7.1294	
MPFOS	11385.13	7.778817	13259.69	7.7788	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	6140.615	7.741983	7236.596	7.741967	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	47680.89	7.1289	55951	7.1289	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	132337.6	3.93415	154109.5	3.9801	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	194198.8	1.021217	204443.7	1.057933	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	34436.36	9.149933	40298.55	9.122084	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	6190.068	7.77845	7070.794	7.778417	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	20372.74	8.9613	20215.46	8.93235	
M7PFUdA-EIS	35485.43	8.75095	44266.17	8.732417	
M6PFDA-EIS	24045.44	8.28035	25508.49	8.270733	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 DUP

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23C0686

Client: Metro North Commuter Railroad Project: 23-3685m

Matrix: Water Laboratory ID: 23C0686-04 File ID: QQQ25155.d

Sampled: 03/09/23 10:28 Prepared: 03/14/23 13:32 Analyzed: 03/15/23 21:30

Solids: Preparation: EPA 1633 Prep Initial/Final: 276.96 mL / 5 mL

Batch: BC30953 Sequence: S3C1630 Calibration: SC30008 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	62633.92	5.6381	99602.13	5.647333	
M4PFHpA-EIS	12978.29	6.452466	22985.3	6.45245	
M3PFHxS-EIS	12160.09	6.55295	15322.08	6.5622	
M3PFBS-EIS	17099.17	4.771167	21668.87	4.798817	
M3-HFPO-DA-EIS	33069.65	5.910617	63320.14	5.91985	
M2PFTeDA-EIS	18898.96	9.78675	24910.23	9.74035	
M2-8-2FTS-EIS	62808.23	8.260683	23459.9	8.251384	*
M2-6-2FTS-EIS	60964.48	7.081666	17070.21	7.0909	*
M2-4-2FTS-EIS	106225	5.57975	33600.83	5.588984	*
d9-NEtFOSE-EIS	10210.04	10.05708	17499.77	10.00175	
d7-NMeFOSE-EIS	14097.92	9.817783	21904.94	9.76175	
d5-NEtFOSA-EIS	1584.455	10.06982	2620.645	10.0237	
d5-N-EtFOSAA-EIS	35052.88	8.722167	27885.45	8.703617	
d3-NMeFOSA-EIS	2347.181	9.812233	3386.998	9.766334	
d3-N-MeFOSAA-EIS	37552.66	8.4907	33482.72	8.481417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 EB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-05	File ID:	QQQ25158.d
Sampled:	03/09/23 15:40	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:18
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	269.95 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	3.28	U
307-24-4	Perfluorohexanoic acid (PFHxA)	1	3.70	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	3.70	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	3.39	U
335-67-1	Perfluorooctanoic acid (PFOA)	1	3.70	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	3.45	U
375-95-1	Perfluorononanoic acid (PFNA)	1	3.70	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.70	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.70	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.70	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.70	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.70	U
2355-31-9	N-MeFOSAA	1	3.70	U
2991-50-6	N-EtFOSAA	1	3.70	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	7.41	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.70	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.54	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.57	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	14.1	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	14.2	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	14.8	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.59	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.41	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.41	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.41	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.48	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.9	U
13252-13-6	HFPO-DA (Gen-X)	1	14.8	U
763051-92-9	11CL-PF3OUdS	1	14.0	U
756426-58-1	9CL-PF3ONS	1	13.9	U
919005-14-4	ADONA	1	14.0	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.59	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.56	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	9.26	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	46.3	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	46.3	U
24448-09-7	N-MeFOSE	1	37.0	U
31506-32-8	N-MeFOSA	1	3.70	U
1691-99-2	N-EtFOSE	1	37.0	U
4151-50-2	N-EtFOSA	1	3.70	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 EB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-05	File ID:	QQQ25158.d
Sampled:	03/09/23 15:40	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:18
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	269.95 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	43.2	49.4	115	25 - 150	
M5PFHxA	46.3	52.6	114	25 - 150	
M4PFHpA	46.3	50.1	108	25 - 150	
M3PFHxS	43.9	52.6	120	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	46.3	50.5	109	25 - 150	
M6PFDA	23.2	24.4	106	25 - 150	
M7PFUdA	23.2	23.9	103	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.2	21.6	93.4	25 - 150	
M2PFTeDA	23.2	21.8	94.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	185	201	108	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.4	52.7	119	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	92.6	104	113	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.3	53.9	116	10 - 150	
d3-N-MeFOSAA	92.6	90.5	97.7	25 - 150	
d5-N-EtFOSAA	92.6	94.6	102	25 - 150	
M2-6:2 FTS	88.1	92.5	105	25 - 200	
M2-8:2 FTS	88.9	94.9	107	25 - 200	
M9PFNA	23.2	30.6	132	25 - 150	
M2-4:2 FTS	86.9	99.7	115	25 - 150	
d-N-MeFOSA	46.3	47.5	103	25 - 150	
d-N-EtFOSA	46.3	50.3	109	25 - 150	
M3HFPO-DA	185	225	121	25 - 150	
d9-N-EtFOSE	463	642	139	25 - 150	
d7-N-MeFOSE	463	688	149	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	53204.23	1.0235	60197.74	1.0694	
MPFDA	20421.27	8.2993	20928.33	8.27115	
MPFHxA	68173.66	5.685717	76824.15	5.648417	
MPFHxS	5086.694	6.599017	5326.471	6.552467	
MPFNA	21219.85	7.760933	25925.54	7.7234	
MPFOA	59653.02	7.157367	61344.24	7.12015	
MPFOS	12279.09	7.80665	13422.61	7.768917	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	6617.542	7.7605	7211.682	7.722933	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	51867.98	7.156883	56658.95	7.11965	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	143492.9	3.961717	158508.5	3.998483	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	184958.1	1.030383	213042.6	1.067117	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	36513.87	9.159367	45535.85	9.084967	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	6777.715	7.806267	7009.24	7.768483	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	18625.83	8.97055	21877.92	8.92305	
M7PFUdA-EIS	40926.73	8.760217	45339.59	8.713866	
M6PFDA-EIS	24994.88	8.298866	30452.39	8.270733	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

030923 EB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-05	File ID:	QQQ25158.d
Sampled:	03/09/23 15:40	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:18
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	269.95 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	92589.38	5.684683	98223.29	5.656933	
M4PFHpA-EIS	20710.3	6.4895	22607.48	6.443183	
M3PFHxS-EIS	14186.31	6.59025	15961.9	6.552933	
M3PFBS-EIS	20375.23	4.7896	22066.15	4.798817	
M3-HFPO-DA-EIS	57816.66	5.9568	61455.34	5.91985	
M2PFTeDA-EIS	21419.81	9.78675	26532.61	9.712617	
M2-8-2FTS-EIS	25148.02	8.2795	27034.87	8.2421	
M2-6-2FTS-EIS	16437.69	7.11865	18113.5	7.0724	
M2-4-2FTS-EIS	32456.09	5.62775	34213.8	5.5982	
d9-NEtFOSE-EIS	11161.8	10.05707	16298.24	9.9831	
d7-NMeFOSE-EIS	15552.31	9.80855	21238.8	9.73345	
d5-NEtFOSA-EIS	1720.629	10.07903	2539.806	10.00527	
d5-N-EtFOSAA-EIS	25795.15	8.731417	30697.21	8.685066	
d3-NMeFOSA-EIS	2533.33	9.812233	3246.623	9.7388	
d3-N-MeFOSAA-EIS	28488.41	8.49995	34329.95	8.462883	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

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Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-06	File ID:	QQQ25159.d
Sampled:	03/09/23 15:00	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	270.13 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	3.28	U
307-24-4	Perfluorohexanoic acid (PFHxA)	1	3.70	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	3.70	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	3.39	U
335-67-1	Perfluorooctanoic acid (PFOA)	1	3.70	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	3.44	U
375-95-1	Perfluorononanoic acid (PFNA)	1	3.70	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	3.70	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	3.70	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	3.70	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	3.70	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	3.70	U
2355-31-9	N-MeFOSAA	1	3.70	U
2991-50-6	N-EtFOSAA	1	3.70	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	7.40	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	3.70	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	3.54	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	3.57	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	14.1	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	14.2	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	14.8	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	6.59	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	7.40	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	7.40	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	7.40	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	3.48	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	13.9	U
13252-13-6	HFPO-DA (Gen-X)	1	14.8	U
763051-92-9	11CL-PF3OUdS	1	14.0	U
756426-58-1	9CL-PF3ONS	1	13.8	U
919005-14-4	ADONA	1	14.0	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	3.59	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	3.55	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	9.25	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	46.3	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	46.3	U
24448-09-7	N-MeFOSE	1	37.0	U
31506-32-8	N-MeFOSA	1	3.70	U
1691-99-2	N-EtFOSE	1	37.0	U
4151-50-2	N-EtFOSA	1	3.70	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

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Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-06	File ID:	QQQ25159.d
Sampled:	03/09/23 15:00	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	270.13 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	43.1	50.5	117	25 - 150	
M5PFHxA	46.3	54.4	118	25 - 150	
M4PFHpA	46.3	54.9	119	25 - 150	
M3PFHxS	43.9	57.4	131	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	46.3	54.0	117	25 - 150	
M6PFDA	23.1	27.2	118	25 - 150	
M7PFUdA	23.1	27.0	117	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	23.1	24.5	106	25 - 150	
M2PFTeDA	23.1	21.9	94.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	185	207	112	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.3	52.0	117	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	92.5	109	118	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.3	56.1	121	10 - 150	
d3-N-MeFOSAA	92.5	92.2	99.6	25 - 150	
d5-N-EtFOSAA	92.5	95.1	103	25 - 150	
M2-6:2 FTS	88.0	103	117	25 - 200	
M2-8:2 FTS	88.8	100	113	25 - 200	
M9PFNA	23.1	30.0	130	25 - 150	
M2-4:2 FTS	86.8	102	118	25 - 150	
d-N-MeFOSA	46.3	46.7	101	25 - 150	
d-N-EtFOSA	46.3	47.9	104	25 - 150	
M3HFPO-DA	185	227	123	25 - 150	
d9-N-EtFOSE	463	524	113	25 - 150	
d7-N-MeFOSE	463	608	131	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	53659.52	1.0235	60197.74	1.0694	
MPFDA	18826.44	8.317833	20928.33	8.27115	
MPFHxA	67803.6	5.667217	76824.15	5.648417	
MPFHxS	5132.868	6.589767	5326.471	6.552467	
MPFNA	23456.47	7.779967	25925.54	7.7234	
MPFOA	58423.91	7.166616	61344.24	7.12015	
MPFOS	12320.42	7.815933	13422.61	7.768917	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	7189.671	7.779583	7211.682	7.722933	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	54333.68	7.166133	56658.95	7.11965	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	149516.5	3.9709	158508.5	3.998483	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	192636.6	1.030383	213042.6	1.067117	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	38201.13	9.187166	45535.85	9.084967	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	6719.994	7.81555	7009.24	7.768483	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	19467.51	8.998333	21877.92	8.92305	
M7PFUdA-EIS	42546.1	8.788417	45339.59	8.713866	
M6PFDA-EIS	25654.04	8.3174	30452.39	8.270733	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

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Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	23C0686-06	File ID:	QQQ25159.d
Sampled:	03/09/23 15:00	Prepared:	03/14/23 13:32	Analyzed:	03/15/23 22:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	270.13 mL / 5 mL
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M5PFHxA-EIS	95241.26	5.666183	98223.29	5.656933	
M4PFHpA-EIS	22573.03	6.4895	22607.48	6.443183	
M3PFHxS-EIS	15619.84	6.59025	15961.9	6.552933	
M3PFBS-EIS	21041.52	4.808033	22066.15	4.798817	
M3-HFPO-DA-EIS	58091.2	5.947567	61455.34	5.91985	
M2PFTeDA-EIS	19857.53	9.832883	26532.61	9.712617	
M2-8-2FTS-EIS	26821.35	8.298034	27034.87	8.2421	
M2-6-2FTS-EIS	18422.91	7.11865	18113.5	7.0724	
M2-4-2FTS-EIS	33599.05	5.607433	34213.8	5.5982	
d9-NEtFOSE-EIS	9169.386	10.10315	16298.24	9.9831	
d7-NMeFOSE-EIS	13723.67	9.854683	21238.8	9.73345	
d5-NEtFOSA-EIS	1647.544	10.1159	2539.806	10.00527	
d5-N-EtFOSAA-EIS	26011.49	8.74995	30697.21	8.685066	
d3-NMeFOSA-EIS	2503.205	9.858367	3246.623	9.7388	
d3-N-MeFOSAA-EIS	29139.38	8.528334	34329.95	8.462883	

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 1633 Draft 2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	BC30953-BLK1	File ID:	QQQ25146.d
Prepared:	03/14/23 13:32	Preparation:	EPA 1633 Prep	Initial/Final:	250.04 mL / 5 mL
Analyzed:	03/15/23 19:05	Instrument:	LCQQQ		
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008

CAS NO.	COMPOUND	CONC. (ng/L)	Q
763051-92-9	11CL-PF3OUdS	15.1	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.4	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.0	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.2	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	50.0	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	50.0	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	10.0	U
756426-58-1	9CL-PF3ONS	15.0	U
919005-14-4	ADONA	15.1	U
13252-13-6	HFPO-DA (Gen-X)	16.0	U
4151-50-2	N-EtFOSA	4.00	U
2991-50-6	N-EtFOSAA	4.00	U
1691-99-2	N-EtFOSE	40.0	U
31506-32-8	N-MeFOSA	4.00	U
2355-31-9	N-MeFOSAA	4.00	U
24448-09-7	N-MeFOSE	40.0	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.12	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	3.86	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	3.82	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	3.84	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	4.00	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	3.76	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.00	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	8.00	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	8.00	U
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.54	U
335-76-2	Perfluorodecanoic acid (PFDA)	4.00	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	3.88	U
307-55-1	Perfluorododecanoic acid (PFDoA)	4.00	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.00	U

FORM I

METHOD BLANK DATA SHEET

EPA 1633 Draft 2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	BC30953-BLK1	File ID:	QQQ25146.d
Prepared:	03/14/23 13:32	Preparation:	EPA 1633 Prep	Initial/Final:	250.04 mL / 5 mL
Analyzed:	03/15/23 19:05	Instrument:	LCQQQ		
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008

CAS NO.	COMPOUND	CONC. (ng/L)	Q
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.66	U
307-24-4	Perfluorohexanoic acid (PFHxA)	4.00	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	16.0	U
375-95-1	Perfluorononanoic acid (PFNA)	4.00	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.72	U
335-67-1	Perfluorooctanoic acid (PFOA)	4.00	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.00	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	4.00	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	4.00	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.00	U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
d3-N-MeFOSAA	100	82.7	82.7	25 - 150	
d5-N-EtFOSAA	100	76.9	77.0	25 - 150	
d7-N-MeFOSE	500	571	114	25 - 150	
d9-N-EtFOSE	500	440	87.9	25 - 150	
d-N-EtFOSA	50.0	39.9	79.8	25 - 150	
d-N-MeFOSA	50.0	43.7	87.4	25 - 150	
M2-4:2 FTS	93.8	91.1	97.1	25 - 150	
M2-6:2 FTS	95.1	82.3	86.6	25 - 200	
M2-8:2 FTS	96.0	74.8	77.9	25 - 200	
M2PFTeDA	25.0	18.5	74.0	10 - 150	
M3HFPO-DA	200	219	109	25 - 150	
M3PFBS	46.6	48.8	105	25 - 150	
M3PFHxS	47.4	53.2	112	25 - 150	
M4PFHpA	50.0	50.9	102	25 - 150	
M5PFHxA	50.0	56.9	114	25 - 150	
M6PFDA	25.0	26.8	107	25 - 150	
M7PFUdA	25.0	24.9	99.8	25 - 150	
M9PFNA	25.0	27.2	109	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	50.0	57.7	116	10 - 150	

FORM I

METHOD BLANK DATA SHEET

EPA 1633 Draft 2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	BC30953-BLK1	File ID:	QQQ25146.d
Prepared:	03/14/23 13:32	Preparation:	EPA 1633 Prep	Initial/Final:	250.04 mL / 5 mL
Analyzed:	03/15/23 19:05	Instrument:	LCQQQ		
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	47.9	55.0	115	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	25.0	23.6	94.4	25 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	200	216	108	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	100	110	110	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.0	53.1	106	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
d3-N-MeFOSAA-EIS	23964.93	8.3795	33482.72	8.481417	
d3-NMeFOSA-EIS	2142.964	9.692567	3386.998	9.766334	
d5-N-EtFOSAA-EIS	19294.48	8.610933	27885.45	8.703617	
d5-NEtFOSA-EIS	1256.375	9.96845	2620.645	10.0237	
d7-NMeFOSE-EIS	11806.65	9.69645	21904.94	9.76175	
d9-NEtFOSE-EIS	7042.893	9.946234	17499.77	10.00175	
M2-4-2FTS-EIS	28541.76	5.646234	33600.83	5.588984	
M2-6-2FTS-EIS	14099.03	7.035417	17070.21	7.0909	
M2-8-2FTS-EIS	19091.43	8.148067	23459.9	8.251384	
M2PFTeDA-EIS	14542.76	9.675616	24910.23	9.74035	
M3-HFPO-DA-EIS	52852.37	5.9568	63320.14	5.91985	
M3PFBA	52229.2	1.032683	57851.47	1.05105	
M3PFBS-EIS	19357.27	4.8357	21668.87	4.798817	
M3PFHxS-EIS	13812.76	6.543667	15322.08	6.5622	
M4PFHpA-EIS	19792.93	6.443183	22985.3	6.45245	
M5PFHxA-EIS	94143.11	5.703183	99602.13	5.647333	
M6PFDA-EIS	21869.89	8.17725	25508.49	8.270733	
M7PFUdA-EIS	34082.19	8.639733	44266.17	8.732417	
MPFDA	17614.28	8.1776	20308.41	8.27115	
MPFHxA	69170.98	5.704216	72968.52	5.648417	
MPFHxS	5287.693	6.543217	5197.313	6.561733	
MPFNA	22799.52	7.64835	24470.14	7.7424	
MPFOA	57534.63	7.073916	62068.04	7.1294	
MPFOS	12198.29	7.684983	13259.69	7.7788	

FORM I

METHOD BLANK DATA SHEET

EPA 1633 Draft 2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0686
Client:	Metro North Commuter Railroad			Project:	23-3685m
Matrix:	Water	Laboratory ID:	BC30953-BLK1	File ID:	QQQ25146.d
Prepared:	03/14/23 13:32	Preparation:	EPA 1633 Prep	Initial/Final:	250.04 mL / 5 mL
Analyzed:	03/15/23 19:05	Instrument:	LCQQQ		
Batch:	BC30953	Sequence:	S3C1630	Calibration:	SC30008

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	18360.63	8.8488	20215.46	8.93235	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	6510.47	7.684516	7070.794	7.778417	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	31829.58	9.029016	40298.55	9.122084	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	181149.8	1.039567	204443.7	1.057933	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	142389.8	3.998483	154109.5	3.9801	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	48727.58	7.073417	55951	7.1289	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5853.157	7.64795	7236.596	7.741967	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0686
Client: Metro North Commuter Railroad
Project: 23-3685m
Calibration: SC30008
Instrument: LCQQQ
Calibration Date: 03/08/23 17:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.8759425	6.655453	9.016573	0.2684387		0.9998757	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.2165189	41.07778	8.308819	0.3245932		0.9884272	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8733205	36.99521	5.646929	0.2655603		0.9867229	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9057431	36.79808	7.14476	0.3721233		0.9929112	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1196836	6.125183	7.958604	0.367206		0.9998988	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.104793	10.36038	6.610213	0.3636722		0.9995624	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.882186E-02	5.194519	3.789992	0.9150458		0.9999413	0.995	
9CL-PF3ONS	1.328666	3.46845	8.138839	0.3478119		0.9999279	0.995	
ADONA	0.6432845	2.33651	6.635256	0.3576607		0.9999809	0.995	
d3-N-MeFOSAA	1.116054	7.354411	8.536365	0.3321006			20	
d5-N-EtFOSAA	0.966066	8.493046	8.759327	0.3118037			20	
d7-N-MeFOSE	7.967852E-02	6.900414	9.795686	0.245212			20	
d9-N-EtFOSE	6.171276E-02	8.344799	10.03627	0.2639197			20	
d-N-EtFOSA	0.121364	11.98866	10.0548	0.2448496			20	
d-N-MeFOSA	0.1890994	7.561116	9.794952	0.2521054			20	
HFPO-DA (Gen-X)	2.829098E-02	7.339468	5.97326	0.2709074		0.999972	0.995	
M2-4:2 FTS	4.04228	57.06746	5.646398	0.2659926			20	*
M2-6:2 FTS	2.223466	61.86175	7.144266	0.3972275			20	*
M2-8:2 FTS	3.02784	47.24266	8.30724	0.3273474			20	*
M2PFTeDA	1.115937	8.148796	9.802848	0.2843799			20	
M3HFPO-DA	0.1746246	14.69642	5.975269	0.29761			20	
M3PFBS	3.817988	4.998619	4.844919	0.3524528			20	
M3PFHxS	2.454972	7.27263	6.61335	0.3898416			20	
M4PFHpA	0.2808382	7.515352	6.510327	0.3201588			20	
M5PFHxA	1.195373	6.103938	5.703183	0.2597519			20	
M6PFDA	1.158985	8.822626	8.330127	0.3357813			20	
M7PFUdA	1.939192	8.209438	8.790537	0.2882174			20	
M9PFNA	0.2363418	9.941166	7.796833	0.3646693			20	
N-EtFOSA	1.291629	15.40303	10.06374	0.2383373		0.9999658	0.995	
N-EtFOSAA	0.9493229	9.698706	8.766671	0.2886817		0.9999632	0.995	

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD47337
March 24, 2025
Sampling date: 10/3-5/2024

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD47337 submitted to Vali-Data of WNY, LLC on March 20, 2025. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines (NFG) NYSDEC; 'Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)' (4/2023) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A), Metals (6020B) and Perfluorinated Hydrocarbons (1633 (12/2022)).

DUSR ID	Sample ID	Laboratory ID	Subcontracted Laboratory ID
1	VE 3-1	AD47337-01	-
2	VE 1-2	AD47337-02	-
3	VE 4-11	AD47337-03	JD97831-1
4	VE 4-9	AD47337-04	-
5	FA4-16	AD47337-05	-
6	VE4-7	AD47337-06	-
7	FA4-9	AD47337-07	-
8	OU11-A	AD47337-08	-
9	OU11-B	AD47337-09	-
10	OU11-C	AD47337-10	-
11	OU11-D	AD47337-11	-
12	OU11-E	AD47337-12	-
13	OU11-F	AD47337-13	-
14	EB_100424	AD47337-14	JD97831-2
15	VE4-11-MS	AD47337-15	JD97831-1MS
16	VE4-11-MSD	AD47337-16	JD97831-1MSD
17	VE4-61	AD47337-17	JD97831-3
18	VE1-4	AD47337-18	JD97831-4
19	VE2-1	AD47337-19	JD97831-5
20	DAY1	AD47337-20	-
21	TB	AD47337-21	-

All target analytes were recorded to the reporting limits.

The PFAS analysis was subcontracted to SGS North America Inc.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except a target analyte was outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	RPD #15/#16	Qualifier	Associated Sample
Toluene	15	UJ	3

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
6M187067.D	1,3,5-Trimethylbenzene	21.8	UJ/J	MBA119168, MBS119169, 1, 2, 17, 18
6M187067.D	n-Butylbenzene	27.2	UJ/J	MBA119168, MBS119169, 1, 2, 17, 18
1M193532.D	4-Isopropyltoluene	29.5	UJ/J	MBA119185, MBS119186, 19, 20
1M193532.D	Ethylbenzene	26.7	UJ/J	MBA119185, MBS119186, 19, 20
1M193532.D	m&p-Xylene	31.9	UJ/J	MBA119185, MBS119186, 19, 20
1M193532.D	n-Butylbenzene	34.2	UJ/J	MBA119185, MBS119186, 19, 20
1M193532.D	o-Xylene	32.1	UJ/J	MBA119185, MBS119186, 19, 20

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of p-Terphenyl-d_{14} was outside QC limits, low in DUSR ID#3. The associated target analytes below should be qualified as estimated in this sample.

Phenanthrene	Anthracene	Fluoranthene
Pyrene	Chrysene	Benzo(a)anthracene
Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene
Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except a target analyte was outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	%Rec #15	%Rec #16	Qualifier	Associated Sample
Indeno(1,2,3-cd)pyrene	54	57	UJ	3

Some target analytes were outside laboratory QC limits but within NFG QC limits, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, MS/MSD, Initial Calibration and Continuing Calibration.

Samples: DUSR ID#4-8, #13, #15, #16 and #18 were diluted.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the raw data for file #5G1106759.D was not included in the original package. That file is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except several surrogates were outside QC limits in the samples and should be qualified as estimated.

Surrogate	Column	%Rec(high/low)	Associated Target Analytes	Qualifier	Associated Sample
TCMX	1	High	none	JH	4
TCMX	2	Low	All	UJ/J	6, 7, 9
DCBP	1	<10%	All	R	7
DCBP	1	Low	All	UJ	18, 20
DCBP	2	Low	All	UJ	7, 20

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except a target analyte was outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	RPD #15/#16	Qualifier	Associated Sample
Aroclor 1016	20	UJ	3

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	8

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%D	Qualifier	Associated Sample
6G192341.D	Aroclor 1260 p. 3	94.4	UJ/J	8-12, 14-17, 19, 20

The continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	8

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Serial Dilution.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
All criteria were met except the %D of a target analyte was outside QC limits in the serial dilution and should be qualified as estimated.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
3SD	Cr	53	UJ	3

A target analyte was outside laboratory QC limits but within NFG QC limits, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation

- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Blanks and MS/MSD.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of some surrogates was outside QC limits and should be qualified as estimated.

Surrogate	Associate Target Analyte	Qualifier	Associated Sample
13C4PFBA	PFBA	UJ/J	3, 3MS/MSD, 17
13C5PFHxA	PFHxA	J	3MSD
13C8PFOA	PFOA	J	3MSD
13C6PFDA	PFDA	J	3MSD
13C7PFUnDA	PFUnDA, PFDS	J	3MSD
13C2PFDoDA	PFDoDA, PFTrDA	J	3MSD
13C2PFTeDA	PFTeDA	J	3MSD
13C3PFBS	PFBS	J	3MSD
13C8PFOS	PFOS	J	3MSD
d3-NMeFOSAA	NMeFOSAA	UJ	18
d5-NEtFOSAA	NEtFOSAA	UJ	18
13C2-6:2FTS	6:2FTS	UJ	3, 18, 19
13C2-8:2FTS	8:2FTS	UJ/J	3, 18, 19, 3MS

BLANKS
All the criteria were met except a few target analytes were detected in a blank and should be qualified in the associated samples in which they were detected.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
OP58806	6:2FTS	.0040	U at RL	17

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except several target analytes were outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	%Rec #3MS	%Rec #3MSD	RPD	Qualifier	Associated Sample
PFHxA	-	220	71	UJ	3
PFHpA	-	188	41	UJ	3
PFOA	-	175	51	UJ	3
PFNA	-	-	47	UJ	3
PFDA	-	168	47	UJ	3
PFUnDA	-	184	53	UJ	3
PFDoDA	-	189	49	UJ	3
PFTrDA	-	178	50	UJ	3
PFTeDA	-	189	41	UJ	3
PFHxS	-	187	40	J	3
PFHpS	-	-	51	UJ	3
PFOS	-	189	53	J	3
PFDS	-	182	65	UJ	3
8:2FTS	-	226	45	UJ	3
PFOSA	-	179	41	UJ	3
NMeFOSAA	-	178	46	UJ	3
NEtFOSAA	-	157	33	UJ	3

The %Rec of some target analytes was outside QC limits, high in the matrix spike but were not detected in the associated sample, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

Alternate forms of regression were used on some to the target analytes with acceptable results, so no further action is required.

CONTINUING CALIBRATION

All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: MNR-Harmon Yard

HC Project: 4100518

Hampton-Clarke (HC) received the following samples on 10/4/2024:

Client ID	HC Sample ID	Matrix	Analysis
VE 3-1	AD47337-001	Aqueous	BN(8270),PCB(8082), TAL Metals(6020),Volatile(8260)
VE 1-2	AD47337-002	Aqueous	BN(8270),PCB(8082), TAL Metals(6020),Volatile(8260)
VE 4-11	AD47337-003	Aqueous	BN(8270),BNSIM(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE 4-9	AD47337-004	Aqueous	PCB(8082)
FA4-16	AD47337-005	Aqueous	PCB(8082)
VE4-7	AD47337-006	Aqueous	PCB(8082)
FA4-9	AD47337-007	Aqueous	PCB(8082)
OU11-A	AD47337-008	Aqueous	PCB(8082)
OU11-B	AD47337-009	Aqueous	PCB(8082)
OU11-C	AD47337-010	Aqueous	PCB(8082)
OU11-D	AD47337-011	Aqueous	PCB(8082)
OU11-E	AD47337-012	Aqueous	PCB(8082)
OU11-F	AD47337-013	Aqueous	PCB(8082)
EB_100424	AD47337-014	Aqueous	BN(8270),BNSIM(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE4-11-MS	AD47337-015	Aqueous	BN(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE4-11-MSD	AD47337-016	Aqueous	BN(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE4-61	AD47337-017	Aqueous	BN(8270),BNSIM(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE1-4	AD47337-018	Aqueous	BN(8270),BNSIM(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
VE2-1	AD47337-019	Aqueous	BN(8270),BNSIM(8270),PCB(8082), TAL Metals(6020),Volatile(8260),PFAS*
DAY-1	AD47337-020	Aqueous	BN(8270),PCB(8082), TAL Metals(6020),Volatile(8260)
TB	AD47337-021	Aqueous	Volatile(8260)

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 119161 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 119161 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. Please refer to the applicable Form 3 for the recoveries.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batches 119169, 119186. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

Samples AD47337-018, -019, -020 were extracted outside of the holding time.

The Method Blank Spike for batches 118836, 118858 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The Matrix Spike and/or Matrix Spike Duplicate for batches 118836, 118858 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD47337-003 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

Samples AD47337-004, -007, -018 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The Post Spike for batch 116482 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD47337-003, -014, -015, -016, -017, -018, -019 were submitted to SGS for PFAs analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	3/6/25 Date

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-001
Client Id: VE 3-1
Data File: 6M187093.D
Analysis Date: 10/08/24 20:54
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	**1,2,4-Trimethylbenzene**	**1.0**	**1.2**	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**1.3**	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	**Chlorobenzene**	**1.0**	**1.2**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 3.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-002
Client Id: VE 1-2
Data File: 6M187094.D
Analysis Date: 10/08/24 21:16
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-003
Client Id: VE 4-11
Data File: 8M5694370.D
Analysis Date: 10/08/24 01:06
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-014
Client Id: EB_100424
Data File: 8M5694378.D
Analysis Date: 10/08/24 03:53
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-015(MS:AD47
Client Id: VE4-11-MS
Data File: 8M5694371.D
Analysis Date: 10/08/24 01:27
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	21	1634-04-4	Methyl-t-butyl ether	0.53	21
108-67-8	1,3,5-Trimethylbenzene	1.0	22	91-20-3	Naphthalene	1.0	22
99-87-6	4-Isopropyltoluene	1.0	22	104-51-8	n-Butylbenzene	1.0	21
71-43-2	Benzene	0.50	22	103-65-1	n-Propylbenzene	1.0	23
108-90-7	Chlorobenzene	1.0	21	95-47-6	o-Xylene	1.0	24
100-41-4	Ethylbenzene	1.0	23	135-98-8	sec-Butylbenzene	1.0	23
98-82-8	Isopropylbenzene	1.0	24	98-06-6	t-Butylbenzene	1.0	21
79601-23-1	m&p-Xylenes	1.0	47	108-88-3	Toluene	1.0	20
1330-20-7	Xylenes (Total)	1.0	71				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-016(MSD:AD
Client Id: VE4-11-MSD
Data File: 8M5694372.D
Analysis Date: 10/08/24 01:48
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	21	1634-04-4	Methyl-t-butyl ether	0.53	21
108-67-8	1,3,5-Trimethylbenzene	1.0	22	91-20-3	Naphthalene	1.0	24
99-87-6	4-Isopropyltoluene	1.0	22	104-51-8	n-Butylbenzene	1.0	21
71-43-2	Benzene	0.50	22	103-65-1	n-Propylbenzene	1.0	22
108-90-7	Chlorobenzene	1.0	22	95-47-6	o-Xylene	1.0	24
100-41-4	Ethylbenzene	1.0	22	135-98-8	sec-Butylbenzene	1.0	22
98-82-8	Isopropylbenzene	1.0	24	98-06-6	t-Butylbenzene	1.0	20
79601-23-1	m&p-Xylenes	1.0	45	108-88-3	Toluene	1.0	23
1330-20-7	Xylenes (Total)	1.0	69				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-017
Client Id: VE4-61
Data File: 6M187095.D
Analysis Date: 10/08/24 21:38
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-018
Client Id: VE1-4
Data File: 6M187096.D
Analysis Date: 10/08/24 22:00
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	**108-88-3**	**Toluene**	**1.0**	**16**
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-019
Client Id: VE2-1
Data File: 1M193539.D
Analysis Date: 10/10/24 18:46
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-020
Client Id: DAY-1
Data File: 1M193540.D
Analysis Date: 10/10/24 19:05
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	**Benzene**	**0.50**	**0.64**	103-65-1	n-Propylbenzene	1.0	U
108-90-7	**Chlorobenzene**	**1.0**	**1.2**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 1.8

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD47337-021
Client Id: TB
Data File: 8M5694377.D
Analysis Date: 10/08/24 03:32
Date Rec/Extracted: 10/04/24-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 772963

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-001
Client Id: VE 3-1
Data File: 9M129769.D
Analysis Date: 10/14/24 17:58
Date Rec/Extracted: 10/04/24-10/11/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 930ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
207-08-9	Benzo[k]fluoranthene	2.2	U	**91-57-6**	**2-Methylnaphthalene**	**2.2**	**2.8**
218-01-9	Chrysene	2.2	U	83-32-9	Acenaphthene	2.2	U
53-70-3	Dibenzo[a,h]anthracene	2.2	U	208-96-8	Acenaphthylene	2.2	U
206-44-0	Fluoranthene	2.2	U	120-12-7	Anthracene	2.2	U
86-73-7	Fluorene	2.2	U	56-55-3	Benzo[a]anthracene	2.2	U
193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U	50-32-8	Benzo[a]pyrene	2.2	U
91-20-3	Naphthalene	0.54	U	205-99-2	Benzo[b]fluoranthene	2.2	U
85-01-8	Phenanthrene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
129-00-0	Pyrene	2.2	U				

Worksheet #: 773002

Total Target Concentration 2.8

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-002
Client Id: VE 1-2
Data File: 9M129768.D
Analysis Date: 10/14/24 17:36
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
207-08-9	Benzo[k]fluoranthene	2.1	U	91-57-6	2-Methylnaphthalene	2.1	U
218-01-9	Chrysene	2.1	U	83-32-9	Acenaphthene	2.1	U
53-70-3	Dibenzo[a,h]anthracene	2.1	U	208-96-8	Acenaphthylene	2.1	U
206-44-0	Fluoranthene	2.1	U	120-12-7	Anthracene	2.1	U
86-73-7	Fluorene	2.1	U	56-55-3	Benzo[a]anthracene	2.1	U
193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
91-20-3	Naphthalene	0.53	U	205-99-2	Benzo[b]fluoranthene	2.1	U
85-01-8	Phenanthrene	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
129-00-0	Pyrene	2.1	U				

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-003
Client Id: VE 4-11
Data File: 10M103521.D
Analysis Date: 10/11/24 17:07
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 905ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.55	U	207-08-9	Benzo[k]fluoranthene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
83-32-9	Acenaphthene	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
208-96-8	Acenaphthylene	2.2	U	206-44-0	Fluoranthene	2.2	U
120-12-7	Anthracene	2.2	U	86-73-7	Fluorene	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U	91-20-3	Naphthalene	0.55	U
205-99-2	Benzo[b]fluoranthene	2.2	U	85-01-8	Phenanthrene	2.2	U
191-24-2	Benzo[g,h,i]perylene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-003
Client Id: VE 4-11
Data File: 12M70986.D
Analysis Date: 10/11/24 11:49
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 905ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.11	U				

Worksheet #: 772962

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-014
Client Id: EB_100424
Data File: 9M129767.D
Analysis Date: 10/14/24 17:14
Date Rec/Extracted: 10/04/24-10/11/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-014
Client Id: EB_100424
Data File: 12M71053.D
Analysis Date: 10/16/24 15:10
Date Rec/Extracted: 10/04/24-10/11/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 772962

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-015(MS:AD47
Client Id: VE4-11-MS
Data File: 10M103522.D
Analysis Date: 10/11/24 17:29
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.53	30	207-08-9	Benzo[k]fluoranthene	2.1	64
91-57-6	2-Methylnaphthalene	2.1	63	218-01-9	Chrysene	2.1	57
83-32-9	Acenaphthene	2.1	59	53-70-3	Dibenzo[a,h]anthracene	2.1	63
208-96-8	Acenaphthylene	2.1	65	206-44-0	Fluoranthene	2.1	67
120-12-7	Anthracene	2.1	62	86-73-7	Fluorene	2.1	64
56-55-3	Benzo[a]anthracene	2.1	63	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	56
50-32-8	Benzo[a]pyrene	2.1	64	91-20-3	Naphthalene	0.53	59
205-99-2	Benzo[b]fluoranthene	2.1	66	85-01-8	Phenanthrene	2.1	64
191-24-2	Benzo[g,h,i]perylene	2.1	63	129-00-0	Pyrene	2.1	64

Worksheet #: 773002

Total Target Concentration 1100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-016(MSD:AD
Client Id: VE4-11-MSD
Data File: 10M103523.D
Analysis Date: 10/11/24 17:52
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 930ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.54	31	207-08-9	Benzo[k]fluoranthene	2.2	69
91-57-6	2-Methylnaphthalene	2.2	67	218-01-9	Chrysene	2.2	62
83-32-9	Acenaphthene	2.2	64	53-70-3	Dibenzo[a,h]anthracene	2.2	68
208-96-8	Acenaphthylene	2.2	70	206-44-0	Fluoranthene	2.2	73
120-12-7	Anthracene	2.2	65	86-73-7	Fluorene	2.2	69
56-55-3	Benzo[a]anthracene	2.2	68	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	62
50-32-8	Benzo[a]pyrene	2.2	69	91-20-3	Naphthalene	0.54	63
205-99-2	Benzo[b]fluoranthene	2.2	71	85-01-8	Phenanthrene	2.2	69
191-24-2	Benzo[g,h,i]perylene	2.2	68	129-00-0	Pyrene	2.2	68

Worksheet #: 773002

Total Target Concentration 1200

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-017
Client Id: VE4-61
Data File: 10M103524.D
Analysis Date: 10/11/24 18:13
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 930ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.54	U	207-08-9	Benzo[k]fluoranthene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
83-32-9	Acenaphthene	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
208-96-8	Acenaphthylene	2.2	U	206-44-0	Fluoranthene	2.2	U
120-12-7	Anthracene	2.2	U	86-73-7	Fluorene	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U	91-20-3	Naphthalene	0.54	U
205-99-2	Benzo[b]fluoranthene	2.2	U	85-01-8	Phenanthrene	2.2	U
191-24-2	Benzo[g,h,i]perylene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-017
Client Id: VE4-61
Data File: 12M70983.D
Analysis Date: 10/11/24 10:46
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 930ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.11	U				

Worksheet #: 772962

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-018
Client Id: VE1-4
Data File: 10M103525.D
Analysis Date: 10/11/24 18:35
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-018
Client Id: VE1-4
Data File: 12M70984.D
Analysis Date: 10/11/24 11:07
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 772962

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-019
Client Id: VE2-1
Data File: 10M103526.D
Analysis Date: 10/11/24 18:57
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.52	U	207-08-9	Benzo[k]fluoranthene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
83-32-9	Acenaphthene	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
208-96-8	Acenaphthylene	2.1	U	206-44-0	Fluoranthene	2.1	U
120-12-7	Anthracene	2.1	U	86-73-7	Fluorene	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
50-32-8	Benzo[a]pyrene	2.1	U	91-20-3	Naphthalene	0.52	U
205-99-2	Benzo[b]fluoranthene	2.1	U	85-01-8	Phenanthrene	2.1	U
191-24-2	Benzo[g,h,i]perylene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 773002

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-019
Client Id: VE2-1
Data File: 12M70985.D
Analysis Date: 10/11/24 11:28
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 772962

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD47337-020
Client Id: DAY-1
Data File: 10M103527.D
Analysis Date: 10/11/24 19:19
Date Rec/Extracted: 10/04/24-10/10/24
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
207-08-9	Benzo[k]fluoranthene	2.0	U	91-57-6	2-Methylnaphthalene	2.0	U
218-01-9	Chrysene	2.0	U	**83-32-9**	**Acenaphthene**	**2.0**	**11**
53-70-3	Dibenzo[a,h]anthracene	2.0	U	208-96-8	Acenaphthylene	2.0	U
206-44-0	**Fluoranthene**	**2.0**	**2.1**	120-12-7	Anthracene	2.0	U
86-73-7	**Fluorene**	**2.0**	**17**	56-55-3	Benzo[a]anthracene	2.0	U
193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
91-20-3	Naphthalene	0.50	U	205-99-2	Benzo[b]fluoranthene	2.0	U
85-01-8	**Phenanthrene**	**2.0**	**31**	191-24-2	Benzo[g,h,i]perylene	2.0	U
129-00-0	**Pyrene**	**2.0**	**3.5**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-001
Client Id: VE 3-1
Data File: 6G192308.D
Analysis Date: 10/10/24 10:36
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-002
Client Id: VE 1-2
Data File: 6G192309.D
Analysis Date: 10/10/24 10:47
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-003
Client Id: VE 4-11
Data File: 6G192310.D
Analysis Date: 10/10/24 10:59
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-004(5X)
Client Id: VE 4-9
Data File: 6G192316.D
Analysis Date: 10/10/24 12:10
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	11097-69-1	Aroclor-1254	1.3	U
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	1336-36-3	Aroclor (Total)	1.3	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-005(5X)
Client Id: FA4-16
Data File: 6G192317.D
Analysis Date: 10/10/24 12:21
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	11097-69-1	Aroclor-1254	1.3	U
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	1336-36-3	Aroclor (Total)	1.3	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-006(5X)
Client Id: VE4-7
Data File: 6G192318.D
Analysis Date: 10/10/24 12:33
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	11097-69-1	Aroclor-1254	1.3	U
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	1336-36-3	Aroclor (Total)	1.3	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-007(2X)
Client Id: FA4-9
Data File: 6G192455.D
Analysis Date: 10/15/24 17:02
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 2
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	1336-36-3	Aroclor (Total)	0.50	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-008(5X)
Client Id: OU11-A
Data File: 6G192456.D
Analysis Date: 10/15/24 17:14
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**28**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**28**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-009
Client Id: OU11-B
Data File: 6G192324.D
Analysis Date: 10/10/24 15:37
Date Rec/Extracted: 10/07/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**5.4**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**5.4**

Worksheet #: 772930

Total Target Concentration 5.4

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-010
Client Id: OU11-C
Data File: 6G192325.D
Analysis Date: 10/10/24 15:48
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-011
Client Id: OU11-D
Data File: 6G192326.D
Analysis Date: 10/10/24 16:00
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-012
Client Id: OU11-E
Data File: 6G192327.D
Analysis Date: 10/10/24 16:12
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-013(2X)
Client Id: OU11-F
Data File: 6G192314.D
Analysis Date: 10/10/24 11:46
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 2
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**(^)Aroclor-1260**	**0.50**	**9.0**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**9.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-014
Client Id: EB_100424
Data File: 6G192334.D
Analysis Date: 10/10/24 17:36
Date Rec/Extracted: 10/04/24-10/08/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-015(MS:AD47
Client Id: VE4-11-MS
Data File: 3G161145.D
Analysis Date: 10/14/24 15:12
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**5.4**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**5.8**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**11**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-016(MSD:AD
Client Id: VE4-11-MSD
Data File: 3G161146.D
Analysis Date: 10/14/24 15:24
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**4.4**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**5.2**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**9.6**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-017
Client Id: VE4-61
Data File: 6G192337.D
Analysis Date: 10/10/24 18:11
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-018(5X)
Client Id: VE1-4
Data File: 6G192315.D
Analysis Date: 10/10/24 11:58
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	11097-69-1	Aroclor-1254	1.3	U
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	1336-36-3	Aroclor (Total)	1.3	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-019
Client Id: VE2-1
Data File: 6G192338.D
Analysis Date: 10/10/24 18:23
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD47337-020
Client Id: DAY-1
Data File: 6G192339.D
Analysis Date: 10/10/24 18:35
Date Rec/Extracted: 10/04/24-10/07/24
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 772930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 3-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	33	MSMS4_7800	SWA
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	33	MSMS4_7800	SWA
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	33	MSMS4_7800	SWA
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	33	MSMS4_7800	SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	34	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	34	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	34	MSMS4_7800SWA	
7439-92-1	Lead	3.0	3.6	1	50	100	10/08/24	116482	SW31377A	34	MSMS4_7800SWA	

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	22	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	22	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	22	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	22	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-014	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	EB_100424	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	35	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	35	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	35	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	35	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-015	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE4-11-MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	480	1	50	100	10/08/24	116482	SW31377A	25	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	500	1	50	100	10/08/24	116482	SW31377A	25	MSMS4_7800SWA	
7440-50-8	Copper	10	490	1	50	100	10/08/24	116482	SW31377A	25	MSMS4_7800SWA	
7439-92-1	Lead	3.0	450	1	50	100	10/08/24	116482	SW31377A	25	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-016	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE4-11-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	490	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	500	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7440-50-8	Copper	10	500	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7439-92-1	Lead	3.0	450	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-016	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE4-11-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	490	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	500	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7440-50-8	Copper	10	500	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	
7439-92-1	Lead	3.0	450	1	50	100	10/08/24	116482	SW31377A	26	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-017	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE4-61	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	36	MSMS4_7800	SWA
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	36	MSMS4_7800	SWA
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	36	MSMS4_7800	SWA
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	36	MSMS4_7800	SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-018	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	37	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	37	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	37	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	37	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	10/08/24	116482	SW31377A	38	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	10/08/24	116482	SW31377A	38	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	10/08/24	116482	SW31377A	38	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	10/08/24	116482	SW31377A	38	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD47337-020	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	10/6/2024	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	11	1	50	100	10/08/24	116482	SW31377A	39	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	11	1	50	100	10/08/24	116482	SW31377A	39	MSMS4_7800SWA	
7440-50-8	Copper	10	33	1	50	100	10/08/24	116482	SW31377A	39	MSMS4_7800SWA	
7439-92-1	Lead	3.0	16	1	50	100	10/08/24	116482	SW31377A	39	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form3
RPD Data Laboratory Limits
QC Batch: MBS119161

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M5694372.D	AD47337-016(MSD:AD47337-0	10/8/2024 1:48:00 AM
Duplicate(If applicable):	8M5694371.D	AD47337-015(MS:AD47337-003	10/8/2024 1:27:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	23.9788	22.8315	4.9	78
Dichlorodifluoromethane	1	21.1214	21.8265	3.3	62
Chloromethane	1	23.7695	21.5435	9.8	67
Bromomethane	1	18.1372	19.229	5.8	65
Vinyl Chloride	1	21.2295	21.777	2.5	55
Chloroethane	1	20.0735	21.1515	5.2	59
Trichlorofluoromethane	1	20.1964	21.5208	6.3	56
Ethyl ether	1	19.3977	19.6239	1.2	55
Furan	1	20.3329	20.4582	0.61	55
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.0029	23.7796	3.3	58
Methylene Chloride	1	22.0186	22.2118	0.87	36
Acrolein	1	127.8889	126.5944	1	66
Acrylonitrile	1	20.1273	19.8906	1.2	59
Iodomethane	1	26.5368	26.431	0.4	66
Acetone	1	99.997	97.1349	2.9	85
Carbon Disulfide	1	22.5879	22.455	0.59	61
t-Butyl Alcohol	1	96.9598	98.1457	1.2	78
n-Hexane	1	24.9248	26.7333	7	56
Di-isopropyl-ether	1	21.3915	21.3005	0.43	54
1,1-Dichloroethene	1	22.7254	22.7812	0.25	56
Methyl Acetate	1	20.1144	19.8106	1.5	71
Methyl-t-butyl ether	**1**	**21.1673**	**21.1679**	**0**	**53**
1,1-Dichloroethane	1	22.3474	21.9953	1.6	54
trans-1,2-Dichloroethene	1	21.8353	22.19	1.6	54
Ethyl-t-butyl ether	1	21.5849	21.7217	0.63	53
cis-1,2-Dichloroethene	1	22.872	23.4385	2.4	53
Bromochloromethane	1	20.7428	20.5652	0.86	54
2,2-Dichloropropane	1	38.1562	38.2412	0.22	55
Ethyl acetate	1	23.5236	22.6604	3.7	56
1,4-Dioxane	1	1207.207	1063.288	13	95
1,1-Dichloropropene	1	22.9008	23.5361	2.7	54
Chloroform	1	20.9819	21.1014	0.57	53
Cyclohexane	1	22.1819	23.0121	3.7	55
1,2-Dichloroethane	1	19.6202	19.96	1.7	52
2-Butanone	1	22.5657	30.4356	30	58
1,1,1-Trichloroethane	1	22.4835	22.5524	0.31	54
Carbon Tetrachloride	1	22.0396	22.0017	0.17	54
Vinyl Acetate	1	27.626	27.3802	0.89	55
Bromodichloromethane	1	20.1245	19.9899	0.67	53
Methylcyclohexane	1	21.6181	22.5839	4.4	55
Dibromomethane	1	19.7822	19.2248	2.9	53
1,2-Dichloropropane	1	20.4258	20.8369	2	53
Trichloroethene	1	20.3689	20.0647	1.5	54
Benzene	**1**	**21.573**	**21.7816**	**0.96**	**52**
tert-Amyl methyl ether	1	21.1113	21.1761	0.31	52
Iso-propylacetate	1	20.8515	19.4326	7	54
Methyl methacrylate	1	17.999	18.8184	4.5	55
Dibromochloromethane	1	18.982	17.8864	5.9	52
2-Chloroethylvinylether	1	0	0	NA	224
cis-1,3-Dichloropropene	1	23.5271	21.0169	11	53
trans-1,3-Dichloropropene	1	23.7381	19.8352	18	53
Ethyl methacrylate	1	24.1336	17.7288	31	55
1,1,2-Trichloroethane	1	22.6981	19.014	18	52
1,2-Dibromoethane	1	19.2048	17.8978	7	52
1,3-Dichloropropane	1	23.0963	19.402	17	53
4-Methyl-2-Pentanone	1	23.8962	18.7697	24	69
2-Hexanone	1	25.574	19.2401	28	54
Tetrachloroethene	1	24.7757	21.2324	15	53
Toluene	**1**	**22.811**	**19.711**	**15**	**53**
1,1,1,2-Tetrachloroethane	1	18.953	18.9898	0.19	53
Chlorobenzene	**1**	**21.8428**	**20.5976**	**5.9**	**53**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M187067.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/8/2024 11:19:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	18.59	20	20		0.014	0.004	7.07	
cis-1,3-Dichloropropene	1	0		5.81	23.77	20	20	0.2	0.438	0.520	18.84	
trans-1,3-Dichloropropene	1	0		6.10	23.98	20	20	0.1	0.379	0.454	19.90	
Ethyl methacrylate	1	0		6.12	25.28	20	20	0.5	0.316	0.399	26.39	C1
1,1,2-Trichloroethane	1	0		6.20	22.10	20	20	0.1	0.279	0.308	10.48	
1,2-Dibromoethane	1	0		6.50	22.41	20	20	0.1	0.302	0.338	12.04	
1,3-Dichloropropane	1	0		6.29	23.69	20	20		0.465	0.550	18.44	
4-Methyl-2-Pentanone	1	0		5.88	23.17	20	20	0.1	0.388	0.450	15.84	
2-Hexanone	1	0		6.31	24.07	20	20	0.1	0.274	0.330	20.37	
Tetrachloroethene	1	0		6.30	19.86	20	20	0.2	0.235	0.233	0.71	
Toluene-d8	1	0	S	5.97	30.92	30	**		1.113	1.147	3.06	
Toluene	1	0		6.00	22.40	20	20	0.4	0.702	0.786	12.00	
1,1,1,2-Tetrachloroethane	1	0		6.79	20.29	20	20		0.285	0.289	1.45	
Chlorobenzene	1	0		6.76	21.52	20	20	0.5	0.791	0.852	7.59	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.00	22.83	20	20	0.5	1.280	1.461	14.16	
n-Amyl acetate	1	0		7.12	23.23	20	20	0.5	0.991	1.151	16.14	
Bromoform	1	0		7.20	17.86	20	20	0.1	0.433	0.387	10.72	
Ethylbenzene	1	0		6.80	23.08	20	20	0.1	0.593	0.684	15.38	
1,1,2,2-Tetrachloroethane	1	0		7.41	23.00	20	20	0.1	0.703	0.808	14.98	
Bromofluorobenzene	1	0	S	7.37	26.75	30	**		0.667	0.595	10.84	
Styrene	1	0		7.08	21.72	20	20	0.3	1.464	1.589	8.58	
m&p-Xylenes	1	0		6.86	42.89	40	20	0.1	0.877	0.940	7.22	
o-Xylene	1	0		7.08	21.26	20	20	0.3	0.864	0.919	6.31	
trans-1,4-Dichloro-2-butene	1	0		7.45	20.68	20	20		0.198	0.204	3.38	
1,3-Dichlorobenzene	1	0		7.99	20.88	20	20	0.6	1.076	1.124	4.41	
1,4-Dichlorobenzene	1	0		8.04	20.81	20	20	0.5	1.113	1.158	4.07	
1,2-Dichlorobenzene	1	0		8.26	21.43	20	20	0.4	1.051	1.127	7.16	
Isopropylbenzene	1	0		7.27	22.20	20	20	0.1	2.037	2.261	11.01	
Cyclohexanone	1	0		7.34	240.42	100	20		0.028	0.068	140.42	C1
Camphene	1	0		7.45	26.09	20	20		0.578	0.754	30.43	C1
1,2,3-Trichloropropane	1	0		7.46	23.92	20	20		0.766	0.916	19.62	
2-Chlorotoluene	1	0		7.57	22.46	20	20		1.429	1.605	12.29	
p-Ethyltoluene	1	0		7.56	21.82	20	20		2.350	2.563	9.09	
4-Chlorotoluene	1	0		7.63	23.77	20	20		1.377	1.636	18.83	
n-Propylbenzene	1	0		7.50	23.89	20	20		2.573	3.073	19.43	
Bromobenzene	1	0		7.47	24.33	20	20		1.354	1.647	21.63	C1
1,3,5-Trimethylbenzene	1	0		7.58	24.36	20	20		1.747	2.127	21.80	C1
Butyl methacrylate	1	0		7.59	24.85	20	20	0.5	0.794	0.986	24.25	C1
t-Butylbenzene	1	0		7.78	22.09	20	20		1.800	1.988	10.45	
1,2,4-Trimethylbenzene	1	0		7.80	23.15	20	20		1.940	2.246	15.77	
sec-Butylbenzene	1	0		7.91	23.95	20	20		2.299	2.753	19.77	
4-Isopropyltoluene	1	0		7.98	22.47	20	20		1.996	2.242	12.33	
n-Butylbenzene	1	0		8.21	25.43	20	20		2.213	2.814	27.16	C1
p-Diethylbenzene	1	0		8.19	22.30	20	20		1.206	1.345	11.50	
1,2,4,5-Tetramethylbenzene	1	0		8.66	21.80	20	20		1.863	2.031	9.01	
1,2-Dibromo-3-Chloropropane	1	0		8.71	19.84	20	20	0.05	0.200	0.199	0.79	
Camphor	1	0		9.14	199.95	200	20		0.100	0.100	0.02	
Hexachlorobutadiene	1	0		9.29	19.41	20	20		0.277	0.269	2.97	
1,2,4-Trichlorobenzene	1	0		9.21	18.91	20	20	0.2	0.683	0.646	5.46	
1,2,3-Trichlorobenzene	1	0		9.50	19.11	20	20		0.637	0.608	4.46	
Naphthalene	1	0		9.36	19.74	20	20		2.120	2.092	1.30	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M193532.D **Instrument:** GCMS 1

Cont Calibration Date/Time 10/10/2024 4:28:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.59	23.81	20	20		0.240	0.286	19.07	
cis-1,3-Dichloropropene	1	0		5.96	23.82	20	20	0.2	0.381	0.454	19.08	
trans-1,3-Dichloropropene	1	0		6.25	23.80	20	20	0.1	0.364	0.433	19.02	
Ethyl methacrylate	1	0		6.26	23.37	20	20	0.5	0.197	0.231	16.86	
1,1,2-Trichloroethane	1	0		6.35	22.73	20	20	0.1	0.269	0.306	13.65	
1,2-Dibromoethane	1	0		6.66	23.41	20	20	0.1	0.283	0.331	17.06	
1,3-Dichloropropane	1	0		6.45	23.36	20	20		0.430	0.503	16.80	
4-Methyl-2-Pentanone	1	0		6.02	23.47	20	20	0.1	0.259	0.303	17.34	
2-Hexanone	1	0		6.45	23.50	20	20	0.1	0.196	0.230	17.50	
Tetrachloroethene	1	0		6.44	23.04	20	20	0.2	0.234	0.269	15.21	
Toluene-d8	1	0	S	6.11	29.09	30	**		1.164	1.128	3.03	
Toluene	1	0		6.15	23.99	20	20	0.4	0.677	0.812	19.94	
1,1,1,2-Tetrachloroethane	1	0		6.94	23.12	20	20		0.265	0.307	15.62	
Chlorobenzene	1	0		6.91	23.52	20	20	0.5	0.779	0.916	17.61	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.14	27.49	20	20	0.5	0.846	1.162	37.44	C1
n-Amyl acetate	1	0		7.26	23.99	20	20	0.5	0.705	0.845	19.95	
Bromoform	1	0		7.36	22.78	20	20	0.1	0.411	0.468	13.91	
Ethylbenzene	1	0		6.94	25.34	20	20	0.1	0.634	0.803	26.70	C1
1,1,2,2-Tetrachloroethane	1	0		7.58	23.51	20	20	0.1	0.726	0.854	17.56	
Bromofluorobenzene	1	0	S	7.52	31.72	30	**		0.691	0.730	5.74	
Styrene	1	0		7.23	23.58	20	20	0.3	1.492	1.759	17.90	
m&p-Xylenes	1	0		7.00	52.74	40	20	0.1	0.876	1.155	31.86	C1
o-Xylene	1	0		7.23	26.41	20	20	0.3	0.847	1.118	32.05	C1
trans-1,4-Dichloro-2-butene	1	0		7.60	23.87	20	20		0.198	0.236	19.36	
1,3-Dichlorobenzene	1	0		8.15	24.95	20	20	0.6	0.940	1.173	24.73	C1
1,4-Dichlorobenzene	1	0		8.20	22.68	20	20	0.5	1.040	1.179	13.38	
1,2-Dichlorobenzene	1	0		8.42	23.42	20	20	0.4	0.894	1.047	17.10	
Isopropylbenzene	1	0		7.42	23.77	20	20	0.1	1.944	2.310	18.84	
Cyclohexanone	1	0		7.50	248.23	100	20		0.032	0.056	148.23	C1
Camphene	1	0		7.59	23.60	20	20		0.408	0.482	18.01	
1,2,3-Trichloropropane	1	0		7.62	22.79	20	20		0.899	1.025	13.95	
2-Chlorotoluene	1	0		7.72	25.12	20	20		1.217	1.528	25.58	C1
p-Ethyltoluene	1	0		7.70	23.57	20	20		1.885	2.221	17.85	
4-Chlorotoluene	1	0		7.78	24.05	20	20		1.285	1.545	20.23	
n-Propylbenzene	1	0		7.64	23.05	20	20		2.239	2.580	15.25	
Bromobenzene	1	0		7.63	23.71	20	20		1.319	1.564	18.55	
1,3,5-Trimethylbenzene	1	0		7.73	23.15	20	20		1.409	1.632	15.77	
Butyl methacrylate	1	0		7.73	23.33	20	20	0.5	0.472	0.551	16.67	
t-Butylbenzene	1	0		7.93	23.42	20	20		1.407	1.647	17.09	
1,2,4-Trimethylbenzene	1	0		7.95	23.15	20	20		1.683	1.949	15.77	
sec-Butylbenzene	1	0		8.05	23.97	20	20		1.683	2.017	19.84	
4-Isopropyltoluene	1	0		8.12	25.91	20	20		1.426	1.847	29.53	C1
n-Butylbenzene	1	0		8.36	26.85	20	20		1.358	1.823	34.24	C1
p-Diethylbenzene	1	0		8.34	28.07	20	20		0.716	1.004	40.35	C1
1,2,4,5-Tetramethylbenzene	1	0		8.81	27.13	20	20		0.930	1.261	35.63	C1
1,2-Dibromo-3-Chloropropane	1	0		8.88	22.58	20	20	0.05	0.161	0.182	12.91	
Camphor	1	0		9.32	196.92	200	20		0.082	0.080	1.54	
Hexachlorobutadiene	1	0		9.45	23.82	20	20		0.146	0.174	19.11	
1,2,4-Trichlorobenzene	1	0		9.37	23.82	20	20	0.2	0.346	0.413	19.11	
1,2,3-Trichlorobenzene	1	0		9.68	24.03	20	20		0.289	0.348	20.14	
Naphthalene	1	0		9.53	23.68	20	20		1.161	1.375	18.40	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
0M103503.D	WMB118836	A	10/11/24 10:32	1		NA	NA	113	103	NA	119
9M129728.D	WMB118858	A	10/11/24 16:01	1		NA	NA	87	84	NA	104
9M129769.D	AD47337-001	A	10/14/24 17:58	1		NA	NA	51	48	NA	41
9M129768.D	AD47337-002	A	10/14/24 17:36	1		NA	NA	79	78	NA	92
0M103521.D	AD47337-003	A	10/11/24 17:07	1		NA	NA	49	44	NA	29*
9M129767.D	AD47337-014	A	10/14/24 17:14	1		NA	NA	85	82	NA	84
0M103522.D	AD47337-015(MS:AD47	A	10/11/24 17:29	1		NA	NA	68	61	NA	49
0M103523.D	AD47337-016(MSD:AD4	A	10/11/24 17:52	1		NA	NA	72	64	NA	49
0M103524.D	AD47337-017	A	10/11/24 18:13	1		NA	NA	65	53	NA	41
0M103525.D	AD47337-018	A	10/11/24 18:35	1		NA	NA	76	69	NA	43
0M103526.D	AD47337-019	A	10/11/24 18:57	1		NA	NA	74	70	NA	48
0M103527.D	AD47337-020	A	10/11/24 19:19	1		NA	NA	61	55	NA	44
0M103502.D	WMB118836(MS)	A	10/11/24 10:10	1		NA	NA	97	93	NA	98
0M103517.D	AD47342-002(T)	A	10/11/24 15:39	1		NA	NA	106	95	NA	115
0M103518.D	WMB118858(MS)	A	10/11/24 16:01	1		NA	NA	106	99	NA	108
0M103531.D	AD47342-002(T)(MS)	A	10/11/24 20:47	1		NA	NA	103	91	NA	105
0M103532.D	AD47342-002(T)(MSD)	A	10/11/24 21:09	1		NA	NA	110	94	NA	110

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	10-131
S2=Phenol-d5	100	10-133
S3=Nitrobenzene-d5	50	19-163
S4=2-Fluorobiphenyl	50	23-154
S5=2,4,6-Tribromophenol	100	20-180
S6=Terphenyl-d14	50	30-184

Form3
Recovery Data Laboratory Limits
QC Batch: WMB118836

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
bis(2-Ethylhexyl)phthalate	1	53.0307	0	100	53*	59	145
Di-n-octylphthalate	1	54.5295	0	100	55*	57	147
Benzo[b]fluoranthene	**1**	**62.3718**	**0**	**100**	**62**	**58**	**146**
Benzo[k]fluoranthene	**1**	**60.5986**	**0**	**100**	**61**	**57**	**140**
Benzo[a]pyrene	**1**	**61.0754**	**0**	**100**	**61**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**53.6358**	**0**	**100**	**54***	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**59.9533**	**0**	**100**	**60**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**59.6471**	**0**	**100**	**60**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB118836

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
bis(2-Ethylhexyl)phthalate	1	57.178	0	100	57*	59	145
Di-n-octylphthalate	1	58.0636	0	100	58	57	147
Benzo[b]fluoranthene	**1**	**66.239**	**0**	**100**	**66**	**58**	**146**
Benzo[k]fluoranthene	**1**	**64.0808**	**0**	**100**	**64**	**57**	**140**
Benzo[a]pyrene	**1**	**63.8906**	**0**	**100**	**64**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**57.3067**	**0**	**100**	**57***	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**63.4263**	**0**	**100**	**63**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**62.9643**	**0**	**100**	**63**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2G195736.D	WMB118795	A	10/07/24 15:41	1		52	50	98	100		
2G196287.D	WMB118813	A	10/21/24 15:15	1		100	95	69	70		
6G192308.D	AD47337-001	A	10/10/24 10:36	1		87	67	62	58		
6G192309.D	AD47337-002	A	10/10/24 10:47	1		94	82	95	90		
6G192310.D	AD47337-003	A	10/10/24 10:59	1		46	42	52	51		
6G192316.D	AD47337-004(5X)	A	10/10/24 12:10	5		199 *	150 *	70	95		
6G192317.D	AD47337-005(5X)	A	10/10/24 12:21	5		65	62	94	86		
6G192318.D	AD47337-006(5X)	A	10/10/24 12:33	5		73	17	20	72		
6G192455.D	AD47337-007(2X)	A	10/15/24 17:02	2		14	11	7.5 *	16		
6G192456.D	AD47337-008(5X)	A	10/15/24 17:14	5		96	87	101	94		
6G192324.D	AD47337-009	A	10/10/24 15:37	1		49	24	56	53		
6G192325.D	AD47337-010	A	10/10/24 15:48	1		75	68	56	52		
6G192326.D	AD47337-011	A	10/10/24 16:00	1		91	90	55	50		
6G192327.D	AD47337-012	A	10/10/24 16:12	1		95	92	58	53		
6G192314.D	AD47337-013(2X)	A	10/10/24 11:46	2		107	55	68	54		
6G192334.D	AD47337-014	A	10/10/24 17:36	1		83	78	68	63		
3G161145.D	AD47337-015(MS:AD47	A	10/14/24 15:12	1		66	60	68	59		
3G161146.D	AD47337-016(MSD:AD4	A	10/14/24 15:24	1		46	42	63	53		
6G192337.D	AD47337-017	A	10/10/24 18:11	1		60	57	49	45		
6G192315.D	AD47337-018(5X)	A	10/10/24 11:58	5		140 *	38	26	54		
6G192338.D	AD47337-019	A	10/10/24 18:23	1		60	55	66	60		
6G192339.D	AD47337-020	A	10/10/24 18:35	1		57	33	28	27		
6G1108671.D	WMB118813(MS)	A	10/11/24 09:49	1		51	51	62	63		
6G1108672.D	WMB118795(MS)	A	10/11/24 10:02	1		49	49	78	79		
6G192306.D	AD47337-001(MS)	A	10/10/24 10:12	1		98	82	75	69		
6G192307.D	AD47337-001(MSD)	A	10/10/24 10:24	1		80	67	54	51		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	11-128
S2=TCMX-Surrogate	100	11-128
S3=DCB-Surrogate	100	11-144
S4=DCB-Surrogate	100	11-144

Form3
RPD Data Laboratory Limits
QC Batch: WMB118795

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G161146.D	AD47337-016(MSD:AD47337-0	10/14/2024 3:24:00 PM
Duplicate(If applicable):	3G161145.D	AD47337-015(MS:AD47337-00	10/14/2024 3:12:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	804.864	981.548	20	71
Aroclor-1260 -Total	2	831.818	947.79	13	49

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form7
Continuing Calibration

Method: EPA 8082A

Data File:	6G192341.D	6G192442.D	6G192457.D
Method:	8082	8082	8082
Calibration Name:	CAL 1660@1000PP	CAL 1660@1000PP	CAL 1660@1000PP
Calibration Date/Time	10/10/24 18:58	10/15/24 13:50	10/15/24 17:26

Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	123.6	100	23.6*	121.5	100	21.5*	121.3	100	21.3*						
Aroclor-1016	20	1	1	1115	1000	11.5	1092	1000	9.2	1066	1000	6.6						
Aroclor-1016	20	1	2	1181	1000	18.1	1186	1000	18.6	1112	1000	11.2						
Aroclor-1016	20	1	3	1143	1000	14.3	1172	1000	17.2	1152	1000	15.2						
Aroclor-1016	20	1	4	1040	1000	4.0	1069	1000	6.9	1102	1000	10.2						
Aroclor-1016	20	1	5	928.7	1000	7.1	918.7	1000	8.1	1108	1000	10.8						
Aroclor-1260	20	1	1	1003	1000	0.3	1133	1000	13.3	1103	1000	10.3						
Aroclor-1260	20	1	2	1031	1000	3.1	1098	1000	9.8	1108	1000	10.8						
Aroclor-1260	20	1	3	1944	1000	94.4*	1857	1000	85.7*	1436	1000	43.6*						
Aroclor-1260	20	1	4	835.1	1000	16.5	887.6	1000	11.2	1082	1000	8.2						
Aroclor-1260	20	1	5	1134	1000	13.4	1181	1000	18.1	1176	1000	17.6						
DCB-Surrogate	20	1	0	118.2	100	18.2	119.5	100	19.5	110.8	100	10.8						
Average Difference	20	1	0			18.7			19.9			14.7						
TCMX-Surrogate	20	2	0	116.2	100	16.2	114.3	100	14.3	111.2	100	11.2						
Aroclor-1016	20	2	1	1140	1000	14.0	1139	1000	13.9	1077	1000	7.7						
Aroclor-1016	20	2	2	1097	1000	9.7	1079	1000	7.9	1046	1000	4.6						
Aroclor-1016	20	2	3	1297	1000	29.7*	1192	1000	19.2	1183	1000	18.3						
Aroclor-1016	20	2	4	916.1	1000	8.4	987.4	1000	1.3	932.2	1000	6.8						
Aroclor-1016	20	2	5	1001	1000	0.1	995.7	1000	0.4	970.5	1000	3.0						
Aroclor-1260	20	2	1	966.4	1000	3.4	1002	1000	0.2	955.7	1000	4.4						
Aroclor-1260	20	2	2	1052	1000	5.2	1090	1000	9.0	1008	1000	0.8						
Aroclor-1260	20	2	3	824.3	1000	17.6	878.7	1000	12.1	887	1000	11.3						
Aroclor-1260	20	2	4	1154	1000	15.4	1172	1000	17.2	1105	1000	10.5						
Aroclor-1260	20	2	5	1046	1000	4.6	1070	1000	7.0	1183	1000	18.3						
DCB-Surrogate	20	2	0	106.8	100	6.8	110.4	100	10.4	107.1	100	7.1						
Average Difference	20	2	0			10.9			9.4			8.7						

Flags/Notes: **** - Values outside of limits for this column/run***

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 116482

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 116482

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	116482	SW31377A	21	SW31377A	20	263.9350	256.9760	2.7	20
Chromium	116482	SW31377A	21	SW31377A	20	274.4450	271.3780	1.1	20
Copper	116482	SW31377A	21	SW31377A	20	273.7800	265.7710	3	20
Lead	116482	SW31377A	21	SW31377A	20	253.4460	241.3690	4.9	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD47337-003

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	116482	SW31377A	23	SW31377A	22	1U	1U	---	20
Chromium	116482	SW31377A	23	SW31377A	22	1U	1U	---	20
Copper	116482	SW31377A	23	SW31377A	22	5U	5U	---	20
Lead	116482	SW31377A	23	SW31377A	22	1.5U	1.5U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD47337-016

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	116482	SW31377A	26	SW31377A	25	246.1640	241.3710	2	20
Chromium	116482	SW31377A	26	SW31377A	25	251.4470	248.2640	1.3	20
Copper	116482	SW31377A	26	SW31377A	25	249.7660	242.7200	2.9	20
Lead	116482	SW31377A	26	SW31377A	25	222.6770	225.6450	1.3	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD47337-003

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	116482	SW31377A	24	SW31377A	22	5	0.1200	0.5240	15		20
Chromium	116482	SW31377A	24	SW31377A	22	5	0.0200	0.2120	53	c	20
Copper	116482	SW31377A	24	SW31377A	22	5	0.4520	2.7150	17	c	20
Lead	116482	SW31377A	24	SW31377A	22	5	0.0380	0.1740	9.2		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Method Blank Summary

Job Number: JD97831
Account: HCVNJF Hampton Clarke-Veritech
Project: Hampton Clarke-Veritech, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58806-MB	1Q19274.D	1	10/25/24	SL	10/25/24	OP58806	T1Q238

The QC reported here applies to the following samples: **Method:** EPA 1633

JD97831-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid [a]	0.0075	0.0080	0.00093	ug/l	J
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	0.0027	0.0020	0.00066	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate [a]	0.0040	0.0080	0.00091	ug/l	J
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	88%	5-130%
	13C5-PFPeA	85%	40-130%
	13C5-PFHxA	82%	40-130%
	13C4-PFHpA	81%	40-130%
	13C8-PFOA	92%	40-130%
	13C9-PFNA	83%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	69%	10-130%
	13C3-PFBS	88%	40-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD97831
Account: HCVNJF Hampton Clarke-Veritech
Project: Hampton Clarke-Veritech, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP58581-MS	1Q19000.D	1	10/18/24	SL	10/17/24	OP58581	T1Q233
OP58581-MSD	1Q19001.D	1	10/18/24	SL	10/17/24	OP58581	T1Q233
JD97831-1	2Q27235.D	1	10/22/24	SL	10/17/24	OP58581	T2Q231

The QC reported here applies to the following samples: **Method:** EPA 1633

JD97831-1, JD97831-2, JD97831-4, JD97831-5

CAS No.	Compound	JD97831-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	ND		0.108	0.248	231* [a]	0.108	0.202	187* [a]	20	70-140/30
2706-90-3	Perfluoropentanoic acid	ND		0.0538	0.103	192* [a]	0.054	0.0939	174* [a]	9	65-135/30
307-24-4	Perfluorohexanoic acid	ND		0.0269	0.0282	105	0.027	0.0593	220* [a]	71* [a]	70-145/30
375-85-9	Perfluoroheptanoic acid	ND		0.0269	0.0335	125	0.027	0.0507	188* [a]	41* [a]	70-150/30
335-67-1	Perfluorooctanoic acid	ND		0.0269	0.0280	104	0.027	0.0473	175* [a]	51* [a]	70-150/30
375-95-1	Perfluorononanoic acid	ND		0.0269	0.0249	93	0.027	0.0403	149	47* [a]	70-150/30
335-76-2	Perfluorodecanoic acid	ND		0.0269	0.0282	105	0.027	0.0454	168* [a]	47* [a]	70-140/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0269	0.0288	107	0.027	0.0497	184* [a]	53* [a]	70-145/30
307-55-1	Perfluorododecanoic acid	ND		0.0269	0.0310	115	0.027	0.0511	189* [a]	49* [a]	70-140/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0269	0.0287	107	0.027	0.0480	178* [a]	50* [a]	65-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0269	0.0338	126	0.027	0.0511	189* [a]	41* [a]	60-140/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.0238	0.0548	230* [a]	0.0239	0.0436	182* [a]	23	60-145/30
355-46-4	Perfluorohexanesulfonic acid	0.0061		0.0246	0.0343	118	0.0247	0.0516	187* [a]	40* [a]	65-145/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0256	0.0221	86	0.0257	0.0371	144	51* [a]	70-150/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0249	0.0320	98	0.0251	0.0548	189* [a]	53* [a]	55-150/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0259	0.0241	93	0.0261	0.0474	182* [a]	65* [a]	60-145/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.102	0.115	113	0.103	0.146	142	24	65-155/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.103	0.148	143	0.104	0.234	226* [a]	45* [a]	60-150/30
754-91-6	PFOSA	ND		0.0269	0.0319	119	0.027	0.0482	179* [a]	41* [a]	70-145/30
2355-31-9	MeFOSAA	ND		0.0269	0.0302	112	0.027	0.0481	178* [a]	46* [a]	50-140/30
2991-50-6	EtFOSAA	ND		0.0269	0.0306	114	0.027	0.0425	157* [a]	33* [a]	70-145/30

CAS No.	ID Standard Recoveries	MS	MSD	JD97831-1	Limits
	13C4-PFBA	24%	12%	23%	5-130%
	13C5-PFPeA	58%	32%* [a]	50%	40-130%
	13C5-PFHxA	81%	46%	79%	40-130%
	13C4-PFHpA	90%	51%	92%	40-130%
	13C8-PFOA	79%	46%	81%	40-130%
	13C9-PFNA	76%	51%	79%	40-130%
	13C6-PFDA	79%	45%	77%	40-130%
	13C7-PFUnDA	85%	47%	80%	30-130%
	13C2-PFDoDA	77%	46%	68%	10-130%
	13C2-PFTeDA	55%	37%	55%	10-130%
	13C3-PFBS	65%	47%	70%	40-135%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD97831
Account: HCVNJF Hampton Clarke-Veritech
Project: Hampton Clarke-Veritech, NJ

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD97831-1	2Q27235.D	23	50	79	92	81	79	77	80
JD97831-2	2Q27236.D	98	98	101	94	100	94	97	95
JD97831-3	1Q19281.D	21	34* [a]	55	66	64	67	74	81
JD97831-3	1Q19475.D	22	45	58	55	71	66	58	72
JD97831-4	2Q27238.D	53	92	107	112	101	99	103	98
JD97831-5	2Q27239.D	59	88	101	100	108	98	95	100
OP58581-BS	1Q18998.D	87	93	90	91	88	81	78	93
OP58581-LLBS	1Q18999.D	102	111	113	109	92	108	92	103
OP58581-MB	1Q18997.D	89	96	96	91	88	84	90	98
OP58581-MS	1Q19000.D	24	58	81	90	79	76	79	85
OP58581-MSD	1Q19001.D	12	32* [b]	46	51	46	51	45	47
OP58806-BS	1Q19276.D	83	81	81	78	78	72	82	81
OP58806-LLBS	1Q19407.D	88	87	86	80	90	78	87	88
OP58806-MB	1Q19274.D	88	85	82	81	92	83	100	98
OP58806-MS	1Q19277.D	78	76	80	75	75	73	87	84
T1Q236-IBLK	1Q19143.D	101	98	97	92	96	89	94	89
T2Q231-ICCB	2Q27228.D	100	96	99	102	98	102	95	98
T1Q233-IBLK	1Q18986.D	102	106	107	109	101	103	111	113
T1Q233-ICCB	1Q18996.D	99	104	102	105	99	89	100	103

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	5-130%
S2 = 13C5-PFPeA	40-130%
S3 = 13C5-PFHxA	40-130%
S4 = 13C4-PFHpA	40-130%
S5 = 13C8-PFOA	40-130%
S6 = 13C9-PFNA	40-130%
S7 = 13C6-PFDA	40-130%
S8 = 13C7-PFUnDA	30-130%

(a) Outside control limit due to possible matrix interference, confirmed by dilution. Analyte ND.
(b) Outside control limits due to matrix interference.

Isotope Dilution Standard Recovery Summary

Job Number: JD97831
Account: HCVNJF Hampton Clarke-Veritech
Project: Hampton Clarke-Veritech, NJ

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD97831-1	2Q27235.D	68	55	70	93	75	91	108	115
JD97831-2	2Q27236.D	98	79	94	94	100	92	102	107
JD97831-3	1Q19281.D	78	61	63	70	80	86	96	107
JD97831-3	1Q19475.D	79	53	56	70	76	51	48	55
JD97831-4	2Q27238.D	103	79	102	97	124	130	157	172* [a]
JD97831-5	2Q27239.D	88	61	93	100	111	107	127	130
OP58581-BS	1Q18998.D	89	73	90	93	76	80	96	94
OP58581-LLBS	1Q18999.D	94	89	96	91	102	103	106	110
OP58581-MB	1Q18997.D	84	79	90	97	80	84	89	88
OP58581-MS	1Q19000.D	77	55	65	82	75	98	124	133
OP58581-MSD	1Q19001.D	46	37	47	52	47	62	79	93
OP58806-BS	1Q19276.D	80	65	76	70	95	75	80	76
OP58806-LLBS	1Q19407.D	85	71	80	76	95	70	77	69
OP58806-MB	1Q19274.D	91	69	88	90	87	76	74	69
OP58806-MS	1Q19277.D	81	62	84	74	76	70	65	61
T1Q236-IBLK	1Q19143.D	91	85	100	92	88	94	99	87
T2Q231-ICCB	2Q27228.D	97	87	106	108	97	99	113	106
T1Q233-IBLK	1Q18986.D	110	104	80	79	94	97	94	96
T1Q233-ICCB	1Q18996.D	106	94	96	94	90	102	104	102

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	10-130%
S10 = 13C2-PFTeDA	10-130%
S11 = 13C3-PFBS	40-135%
S12 = 13C3-PFHxS	40-130%
S13 = 13C8-PFOS	40-130%
S14 = 13C8-FOSA	40-130%
S15 = d3-MeFOSAA	40-170%
S16 = d5-EtFOSAA	25-135%

(a) Outside control limits biased high. Sample ND.

Isotope Dilution Standard Recovery Summary

Job Number: JD97831
Account: HCVNJF Hampton Clarke-Veritech
Project: Hampton Clarke-Veritech, NJ

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18
JD97831-1	2Q27235.D	201* [a]	220
JD97831-2	2Q27236.D	110	96
JD97831-3	1Q19281.D	129	128
JD97831-3	1Q19475.D	93	71
JD97831-4	2Q27238.D	235* [a]	239
JD97831-5	2Q27239.D	210* [a]	169
OP58581-BS	1Q18998.D	97	90
OP58581-LLBS	1Q18999.D	127	118
OP58581-MB	1Q18997.D	110	110
OP58581-MS	1Q19000.D	145	152
OP58581-MSD	1Q19001.D	117	106
OP58806-BS	1Q19276.D	85	83
OP58806-LLBS	1Q19407.D	97	97
OP58806-MB	1Q19274.D	98	92
OP58806-MS	1Q19277.D	89	84
T1Q236-IBLK	1Q19143.D	128	110
T2Q231-ICCB	2Q27228.D	125	126
T1Q233-IBLK	1Q18986.D	112	97
T1Q233-ICCB	1Q18996.D	111	107

Isotope Dilution Standards	Recovery Limits
S17 = 13C2-6:2FTS	40-200%
S18 = 13C2-8:2FTS	40-300%

(a) Outside control limits biased high. Sample ND.

Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2024\GC_5\DATA\0604-24\
Data File : 5G1106759.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Jun-24, 13:45:50
Operator : PR/KM/AH
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:47:34 2024
Quant Method : G:\Gcdata\2024\GC_5\MethodQt\5G_PCB0604.M
Quant Title : @GC_5,ug,608,8082
QLast Update : Tue Jun 04 16:01:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.035	3.291	3850.5E6	1341.5E6	51.170	50.660m
2)Aroclor-1016 {1}	3.491	3.835	558.4E6	197.7E6	481.819m	502.819
3)Aroclor-1016 {2}	3.808	4.209	1273.9E6	479.2E6	519.009m	513.082
4)Aroclor-1016 {3}	4.202	4.549	3113.0E6	617.4E6	530.590	490.848m
5)Aroclor-1016 {4}	4.413	4.702	934.4E6	311.7E6	507.071	498.345m
6)Aroclor-1016 {5}	4.487	4.833	663.9E6	472.0E6	507.413	509.388
7)Aroclor-1260 {1}	5.802	6.292	1434.0E6	611.3E6	495.034	499.829
8)Aroclor-1260 {2}	6.014	6.364	1703.9E6	637.6E6	494.693	501.005
9)Aroclor-1260 {3}	6.424	7.209	636.6E6	435.8E6	498.469	506.309m
10)Aroclor-1260 {4}	6.681	7.804	1269.4E6	497.0E6	494.770	503.691
11)Aroclor-1260 {5}	7.293	8.274	1953.6E6	301.2E6	744.170	501.682 #
45)DCB-Surrogate	8.258	9.132	2486.9E6	929.4E6	49.429	49.702

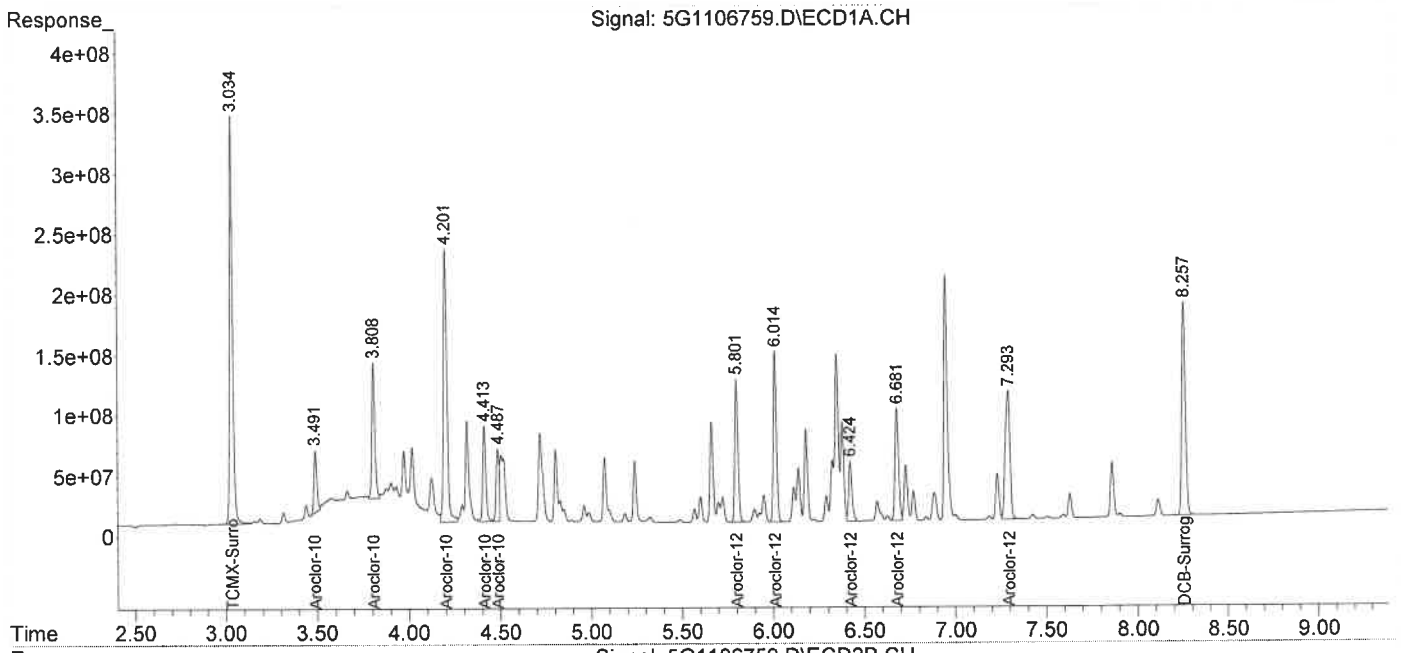
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

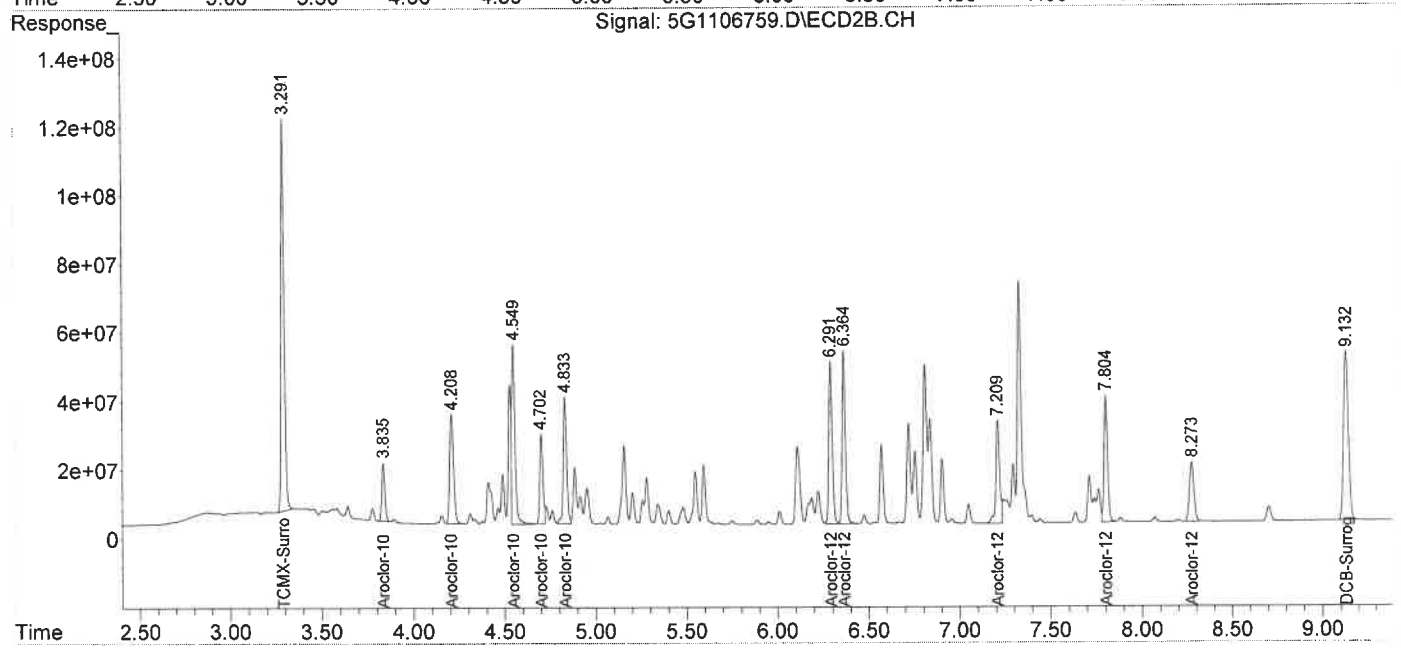
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2024\GC_5\DATA\0604-24\
Data File : 5G1106759.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Jun-24, 13:45:50
Operator : PR/KM/AH
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:47:34 2024
Quant Method : G:\Gcdata\2024\GC_5\MethodQt\5G_PCB0604.M
Quant Title : @GC_5,ug,608,8082
QLast Update : Tue Jun 04 16:01:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Attachment I

Photo Log

NAPL collection area, taken looking south, October 13, 2023

Belt skimmer in well FA4-8 on October 24, 2024

Enclosure containing belt skimmer around well FA4-8, taken October 24, 2024

OUII NAPL Area L2, taken looking northeast, on October 13, 2023

OUII NAPL Area L-4, taken looking west on October 24, 2024

OUI Area, taken looking west on October 24, 2024

Well DAY-1

Well PGW-2

Well VE4-9

Well FA4-18

Off-site well OUII_D, taken on June 26, 2024

Off-site wells, taken on March 18, 2025