

Adelaar
(Former Concord Hotel and Resort)
SULLIVAN COUNTY
TOWN OF THOMPSON, NEW YORK

Periodic Review Report

NYSDEC Brownfield Cleanup Program Site Number: C353014

AKRF Project Number: 40376

Prepared for:

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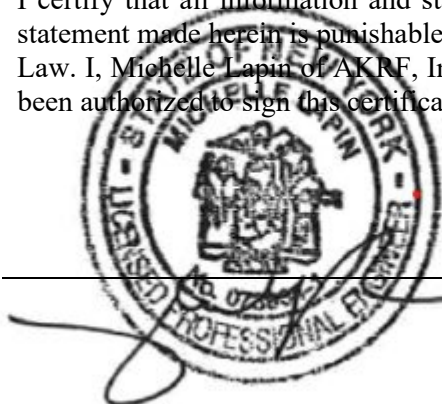
P.E. CERTIFICATION

I, Michelle Lapin, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the December 2017 Site Management Plan protocols, and I certify that the documentation of site management activities is accurately presented in this Periodic Review Report for the Adelaar (Former Concord Hotel and Resort) site (the "Site"), located in the Town of Thompson, New York (BCP Site No. C353014).

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and engineering controls employed at this Site are unchanged from the date the controls were put in place, or last approved by the NYSDEC;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of the engineering controls;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- No new information has come to my attention, including groundwater monitoring data from wells located at the Site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid;
- 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 in this report is accurate and complete.

I certify that all information and statements in this certification form 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, Michelle Lapin of AKRF, Inc., am certifying Owner's Designated Site Representative and I have been authorized to sign this certification for the Site.



06/30/23

Date

Signature

EXECUTIVE SUMMARY

This Periodic Review Report (PRR) was prepared on behalf of the EPR Concord II, L.P. (the “Volunteer”) as an element of the remedial program at the Adelaar Site located in the Town of Thompson, New York (the “Site”) under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). A Site location map is provided as Figure 1. The Site, owned by the Volunteer, includes four separate remediation areas or Operating Units (OUs), described as the following:

- OU-1B – Former Gas Station – Remediated to Track 1 Unrestricted Use, specific end use not yet determined.
- OU-1C – International Club House Disposal Area – Remediated to Track 1 Unrestricted Use, specific end use not yet determined.
- OU-2 – Golf Maintenance Building and Disposal Area – Maintenance Building and disposal area remediated to Track 2 Commercial Use. OU-2 was redeveloped as part of the Chalet Road realignment and includes a stormwater detention basin.
- OU-3 – International Golf Course Disposal Area – Remediated to Track 2 Commercial Use and was redeveloped as part of a Waterpark.

As reported to NYSDEC and the New York State Department of Health (NYSDOH), a Remedial Investigation (RI) completed at the Site between August and December 2008 confirmed that soil and groundwater contamination related to underground storage tanks (USTs) and/or unregulated landfills was present at the OUs. Each OU was remediated in accordance with the Brownfield Cleanup Agreement (BCA) for Site #C353014, which was executed on August 19, 2015. Remedial activities included soil removal at each OU, and utilization of a site cover system over the consolidated landfill area at OU-2. The remediation work was completed between June 2016 and August 2017. The NYSDEC-approved remediation plan for OU-2 and OU-3 included the use of Engineering and/or Institutional Controls (ECs/ICs) to achieve the Remedial Action Objectives (RAOs). NYSDEC approved the Final Engineering Report (FER) and Site Management Plan (SMP) and issued a Certificate of Completion (COC) to the Volunteer on December 28, 2017.

The purpose of this PRR is to document the site management activities associated with the Site’s ECs/ICs and to certify that the controls have been implemented in accordance with the SMP.

In summary, the remedy remains effective and protective of human health and the environment with continued implementation of the SMP. A site cover inspection at OU-2, and annual groundwater sampling at OU-2 and OU-3, were performed to document Site conditions. As documented and certified herein, the Volunteer was fully compliant with the SMP for the reporting period from April 28, 2022 through April 28, 2023. The status of each of the remaining remedial program elements are summarized below.

Site Cover System

The permanent Site cover system over the consolidated landfill area at OU-2 was maintained in good condition to prevent contact with underlying soil and groundwater.

Groundwater Monitoring

Groundwater sampling results for OU-2 (VOCs, SVOCS, PCBs, pesticides, and metals) and OU-3 (metals) have shown that the remedy (i.e., soil source removal) has been effective in reducing contaminant concentrations in the remediation areas.

1.0 INTRODUCTION

This Periodic Review Report (PRR) was prepared for the Adelaar Site located in the Town of Thompson, New York (hereinafter referred to as the “Site”) under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with the Brownfield Cleanup Agreement (BCA) for Site #C353014, which was executed on August 19, 2015.

EPR Concord II, LP entered into a BCA on August 19, 2015 with NYSDEC to remediate four separate areas or Operating Units (OUs) totaling approximately 12.5 acres within the Site. A figure showing the location of the Adelaar property, and the location of each OU, is provided as Figure 1. A Decision Document (DD) was prepared by NYSDEC at the start of the project to outline the approved remedy for each OU. The DD required that a Site Management Plan (SMP) be developed and implemented at OU-2 and OU-3. The boundaries of OU-2 and OU-3 are included on Figures 2A and 2B, respectively, and are more fully described in the metes and bounds site description that is part of the Environmental Easement in Appendix A of the SMP. The remedial excavation areas and site cap location at OU-2 are shown on Figure 2A, and the remedial excavation area at OU-3 is shown on Figure 2B for reference. The remediation of OU-1B and OU-1C did not rely on the use of ECs and ICs and, therefore, are not subject to the SMP.

After completion of the remedial work, some contamination was left at OU-2 and OU-3, which is hereafter referred to as “remaining contamination.” ECs and ICs have been incorporated into the Site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to NYSDEC, and recorded with the Sullivan County Clerk, requires compliance with the SMP and all ECs and ICs placed on the parcel areas included within the borders of OU-2 and OU-3.

A Final Engineering Report (FER) detailing Site remedial activities was submitted to and approved by NYSDEC, which resulted in the issuance of a Certificate of Completion (COC) on December 28, 2017. Ongoing Site management activities are being performed in accordance with the NYSDEC-approved December 2017 SMP. The SMP provides detailed descriptions of all procedures required to manage known and potential residual contamination. Activities conducted at the Site under the SMP during this reporting period have included:

- Annual monitoring well gauging and groundwater sampling
- Site Cover/Site Cap Inspection

The purpose of this PRR is to document the Site management activities associated with the Site’s ECs and ICs and to certify that the controls have been implemented in accordance with the SMP. The reporting period on the EC/IC Certification form is from April 28, 2022 to April 28, 2023 and constitutes the fifth reporting year since receiving the COC.

2.0 SITE MANAGEMENT REQUIREMENTS

2.1 Introduction

For additional details related to the nature and extent of contamination and the remedial cleanup, please refer to the appropriate sections of the FER and SMP. The site management requirements for evaluating the performance and effectiveness of the remedy at the Site, the site cover system, and all affected Site media are summarized in Table T1 below (referenced from the December 2017 SMP) with an indication of what was completed this reporting period (fifth reporting year since receipt of the COC).

**Table T1
 Monitoring/Inspection Requirement Summary**

Monitoring Program	Frequency*	Purpose	Analysis	Completed this Period?
Site Cover System	Annually. First inspection no more than 18 months after COC, then at least annually thereafter.	Site Conditions at OU-2 and OU-3, and Cover System Integrity at OU-2	Visual Inspection of Conditions	Yes
Groundwater Monitoring and Sampling at OU-2 and OU-3	Annually. First inspection no more than 18 months after COC, then at least annually thereafter.	Groundwater post-remediation performance sampling at OU-2 and OU-3	OU-2: VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020, respectively OU-3: Metals by EPA Method 6020	Yes

Notes:

*The frequency of events was conducted as specified in the SMP.

COC – Certificate of Completion; VOCs – Volatile Organic Compounds; SVOCs – Semivolatile Organic Compounds; PID – Photoionization Detector

EPA – Environmental Protection Agency

2.2 Monitoring Requirements

This section describes the measures completed to satisfy the monitoring requirements of the SMP. The results of the Site monitoring program are described in Section 3.0.

2.2.1 OU2 Site Cover System

Exposure to landfill materials within the consolidated landfill area on the eastern side of the Site is prevented by an engineered site cover system made up of a 12-inch soil cap with an underlying demarcation layer that met the specific cleanup objectives.

The site cover system continues to remain intact 24 hours a day, 7 days a week, for 365 days a year. Disturbance of the site cover system or EC components is prohibited by the Environmental Easement. In the unlikely event of an unanticipated accidental or required disturbance of the site cover system, the response procedure is outlined in Section 4.3 of the SMP. Annual monitoring of the site cover system is required by the SMP, and

monitoring of the site cover system will continue on an annual basis as long as the Environmental Easement is in effect to ensure the system’s integrity.

AKRF inspected the site cover during a site visit on April 4, 2023. The inspection consisted of observing the site conditions and associated soil cap at OU2. The location and details of the site cover system as maintained over the course of this reporting period are shown on Figure 2A. The landscaped and soil areas were inspected for erosion and signs of excavation. Results of the site cover system inspection are summarized in Section 3.1 of this PRR.

2.2.2 Groundwater Monitoring and Sampling

Groundwater monitoring is required on an annual basis after issuance of the COC to assess the performance of the remedy. A July 30, 2021 email from Michael Squire of NYSDEC confirmed a modification to the requirements for the groundwater sampling at OU2 and OU3 during the April 28, 2021 to April 28, 2022 period. The modification included the removal of two monitoring wells from OU2 and three monitoring wells from OU-3. The reduction in sampling was based on the performance sampling results over the first three years of annual monitoring, which confirmed that the remedy was effective relative to human health and the environment. Groundwater monitoring was performed on April 4, 2023. The approved sampling locations and analytical parameters for each OU are summarized in Table T2.

**Table T2
Groundwater Monitoring and Sampling Plan**

Location (OU)	Monitoring Well ID	Analytes
OU2	OU2-MW1	VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020
OU3	OU3-MW2	Metals by EPA Method 6020

2.3 Monitoring Reporting Requirements

The SMP requirement for reporting to NYSDEC includes an annual PRR. The reporting requirements are maintained until the termination of the Environmental Easement. This PRR fulfills the annual reporting requirements for the April 28, 2022 to April 28, 2023 monitoring period.

3.0 SITE MANAGEMENT MONITORING AND INSPECTION RESULTS

The site management monitoring inspections completed during this reporting period are summarized in the following sections.

3.1 OU2 Site Cover System

The soil cap at OU-2 was found to be intact, with no observable signs of damage, excavation, or erosion that would affect the integrity and purpose of the site cover. The vegetative cover planted in 2017 has fully taken root and covers the site cap area. No additional corrective actions are recommended following the completion of this reporting period. A copy of the Site Inspection form is included in Appendix A.

3.2 Groundwater Sampling Observations and Analytical Results

Groundwater sampling logs documenting the general chemistry parameters collected during low flow sampling are included in Appendix A. Groundwater analytical results generated during the annual sampling event, as well as the sampling history for the approved wells, are included on Tables 1 to 4, and any NYSDEC GA Ambient Water Quality Standard (AWQS) exceedances during the April 28, 2022 to April 28, 2023 sampling period are shown on Figure 2A for OU-2 and Figure 2B for OU-3. The groundwater analytical report and the Data Usability Summary Report (DUSR) are provided in Appendix B. The DUSR confirmed that the laboratory analyses were completed in accordance with the method requirements and the data can be relied upon to draw conclusions related to the objectives of this PRR.

The analytical results documented in Tables 1 to 4 include updated laboratory qualifiers as reported in the DUSR. These updates are based on a review of the raw analytical data and the laboratory's minimum reporting requirement, and adjustments are made, where applicable, based on the updated EPA method standard requirements and guidelines for validation.

3.2.1 OU2 Groundwater Analytical Results

VOCs

The analytical results for VOCs are included in Table 1.

OU2-MW-1

Petroleum compounds benzene, toluene, ethylbenzene, and methyl tertiary butyl ether (MTBE) were detected at concentrations ranging from an estimated 0.42 micrograms per liter ($\mu\text{g/l}$) of MTBE to 2.4 $\mu\text{g/l}$ of toluene. Other detections included acetone, 2-butanone, and cis-1,2-dichloroethene (DCE) at concentrations ranging from an estimated 0.24 $\mu\text{g/l}$ of city-1,2-DCE to 6.6 $\mu\text{g/l}$ of acetone. Each detection was below its applicable NYSDEC GA AWQS.

Sample OUX-MW-X was a duplicate sample collected at OU2-MW-1. Benzene, toluene, ethylbenzene, and MTBE were detected at concentrations ranging from an estimated 0.4 $\mu\text{g/l}$ of MTBE to 2.2 $\mu\text{g/l}$ of toluene. Other detections included acetone and 2-butanone at concentrations of an estimated 2.8 $\mu\text{g/l}$ and 7.2 $\mu\text{g/l}$, respectively. The results were very consistent with OU2-MW-1, which supported the QA/QC review that confirmed reliable sampling results.

SVOCs

OU2-MW1

The analytical results for SVOCs are summarized in Table 2. 3 & 4 Methylphenol, naphthalene, and phenol were detected at a concentrations of 12 µg/l, an estimated 1.4 µg/l, and an estimated 0.64 µg/l, respectively. There were no detections above the GA AWQS.

Sample OUX-MW-X was a duplicate sample collected at OU2-MW-1. 3 & 4 Methylphenol, naphthalene, and phenol were detected at a concentrations of 11 µg/l, an estimated 1.4 µg/l, and an estimated 0.54 µg/l, respectively. The results were very consistent with OU2-MW-1, which supported the QA/QC review that confirmed reliable sampling results. There were no detections above the GA AWQS.

No additional SVOCs were detected in the samples.

PCBs/Pesticides

OU2-MW1

PCB and pesticide results are summarized in Table 3. PCB analysis included the ultra-low 0.012 µg/l method reporting limit, which was utilized to meet the 0.09 µg/l Class GA AWQS. There were no PCBs or pesticides detected in both OU2-MW-1 or the duplicate sample OUX-MW-X.

Metals

The analytical results for metals are summarized in Table 4.

OU2-MW1

Manganese was detected at a concentration of at 8,310 µg/l, which exceeds its GA AWQS of 300 µg/l. Arsenic, barium, copper, nickel, selenium, and zinc were detected at concentrations ranging from an estimated 0.39 µg/l of selenium to 183 µg/l of barium, with each detection below the respective GA AWQS.

OUX-MWX

Manganese was detected at a concentration of at 8,700 µg/l, which exceeds its GA AWQS of 300 µg/l. Arsenic, barium, copper, nickel, and zinc were detected at concentrations ranging from 1.6 µg/l of nickel to 189 µg/l of barium, with each detection below the respective GA AWQS. The results were very consistent with OU2-MW-1, which supported the QA/QC review that confirmed reliable sampling results.

3.2.2 OU3 Groundwater Analytical Results

The metals results for OU-3 are summarized in Table 4.

OU3-MW2

Manganese (32,400 µg/l) and barium (1,050 µg/l) were detected at concentrations exceeding their GA AWQS of 300 µg/l and 1,000 µg/l, respectively. Cadmium, copper, nickel, and Zinc were detected in the sample at concentrations ranging from an estimate 1.7 µg/l (cadmium) to 17.9 µg/l (nickel), all of which were below the GA AWQS.

3.2.3 Groundwater Summary

OU-2

The OU2 contamination outlined in the NYSDEC Decision Document was identified as VOCs, pesticides, PCBs, and metals associated with the golf maintenance building on the northern side of the Site, and VOCs, PCBs, pesticides and metals associated with the landfill area on the southern side of the Site. The latest round of groundwater laboratory results indicated that the BCP remedy has been effective and protective of human health and the environment.

As documented in the FER, and prior to the remedial efforts, the area around monitoring well OU2-MW-1 included grossly contaminated soil and free phase petroleum. Remediation included removal of all contaminated soil and exposed groundwater down to bedrock and backfill with clean soil. The April 2023 groundwater sampling results for OU2-MW-1 documented that, of the seven detected VOCs, there were no concentrations above their respective GA AWQS, which was the first compliant sampling event since monitoring began in 2018. Of the three VOC compounds that exceeded the GA AWQS during previous sampling events (ethylbenzene, n-butylbenzene, and N-propylbenzene) only toluene was detected at a concentration of 1 µg/l.

Naphthalene continues to be detected, but at an estimated concentration below the GA AWQS. There were no SVOCs that exceeded the GA AWQS. PCBs and pesticides were not detected in any of the groundwater samples. Manganese was detected at OU2-MW-1 at generally consistent concentrations compared to previous sampling events and may be a naturally occurring condition associated with sediment entrained in the sample. This and the remaining metals results were consistent with previous data and do not indicate any hot spots or continuing sources of contamination.

OU-3

OU3-MW-2

Manganese and barium were detected at a concentration exceeding the GA AWQS, with the concentration of the remaining detected analytes below the GA AWQS. These detections, and the manganese and barium exceedances that appear to be naturally occurring, are consistent with historical data and do not indicate any hot spots or continuing sources of contamination. These results indicate that the remedial efforts have been effective, the groundwater conditions have remained stable, and the remaining contamination is not a continuing source for groundwater contamination.

3.3 Health and Safety Monitoring

The Health and Safety Plan (HASP), a component of the SMP, includes requirements for personnel training, protocols for work zone air monitoring and community air monitoring, designated personal protection equipment, and decontamination procedures. The HASP also includes a Community Air Monitoring Plan (CAMP), which established protocols for VOC and particulate air monitoring to be conducted at the Site perimeter if work zone perimeter concentrations approach the applicable community action levels.

Because there was no soil disturbance or breaches of the site cover system during the reporting period, no air monitoring was performed. During groundwater monitoring, field personnel followed the HASP protocol using modified Level D personal protective equipment (PPE), including nitrile gloves and safety glasses.

4.0 IC/EC CERTIFICATION

A Site-wide inspection was conducted on April 4, 2023, as specified in the SMP, to ensure that all aspects of the remedy were in-place and effective. Based on the Site-wide inspection and the data evaluation summarized in this report, the following certification is made for the Site, as documented in the IC-EC Certification form provided in Appendix C:

- a) The institutional control and engineering controls employed at this Site are unchanged from the date the control was put in place, or last approved by the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER), with the exceptions cited in this Periodic Review Report;
- b) Nothing has occurred that would impair the ability of such control to protect public health and the environment;
- c) Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and
- d) Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.

5.0 SITE MANAGEMENT SCHEDULE

The site management requirements identified in the SMP for the April 28, 2023 through April 28, 2024 is outlined in Table T3.

**Table T3
 Future Monitoring/Inspection Plan**

Monitoring Program	Next Scheduled Event	Frequency	Purpose	Analysis
Site Cover System	April 2024	Annually	Site Conditions at OU-2 and OU-3, and Cover System Integrity at OU-2	Visual Inspection of Conditions
Groundwater Monitoring and Sampling	April 2024	Annually	Groundwater	OU-2: VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020, respectively OU-3: Metals by EPA Method 6020

5.1 Groundwater Monitoring

In accordance with the existing site management schedule, the groundwater sampling frequency, wells, and analysis for the upcoming April 28, 2023 through April 28, 2024 monitoring period will remain as confirmed by NYSDEC (pursuant to the email from Michael Squire to AKRF dated July 30, 2021), and will be described in a Revised SMP.

TABLES

Table 1
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW-1-123019	OU2-MW1_20201124	OU2-MW1_20211201	OUX-MWX_20211201	OU2-MW1_20230404	OUX-MWX_20230404	Field Blank-112018	FB_20230404
Lab Sample ID	Class GA	460-169852-3	460-200012-1	460-223616-3	460-248245-1	460-248245-4	460-277930-1	460-277930-4	460-169852-2	460-277930-3
Date Sampled	AWQSGV	11/20/2018	12/30/2019	11/24/2020	12/01/2021	12/01/2021	4/4/2023	04/04/2023	11/20/2018	04/04/2023
Analyte	µg/L									
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	33	47	36	8.3	8.5	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	1.6	1.6	3.8	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	50	5 U	5 U	5 U	5 U	5 U	3 J	2.8 J	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	6.6	7.2	7.9	7.9
Benzene	1	1 U	1 U	0.44 J	1 U	1 U	0.39 J	0.32 J	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	0.24 J	1 U	1 U	1 U
Ethylbenzene	5	7	6.5	5.6	3.7	3.6	1	0.95 J	1 U	1 U
Methyl tert-butyl ether	10	1 U	1 U	0.65 J	1 U	1 U	0.42 J	0.4 J	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	4	7.9	6.4	6.5	6.7	1 U	1 U	1 U	1 U
N-Propylbenzene	5	10	15	17	9.5	9.8	1 U	1 U	1 U	1 U
sec-Butylbenzene	5	2.3	3.5	3.3	2.7	2.8	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	0.57 J	0.61 J	0.72 J	1 U	1 U	2.4	2.2	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	3.4	2.5	3.7	0.8 J	0.81 J	2 U	2 U	2 U	2 U
Total Conc	NS	61.87	84.61	77.61	31.5	32.21	14.05	13.87	7.9	7.9

Table 1
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

Client ID	NYSDEC	Trip Blank-112018	TB-123119	FB-123119	FB_20201124	TB_20201124	FB_20211201	TB_20211201	TB_20230404
Lab Sample ID	Class GA	460-169852-1	460-200012-8	460-200012-9	460-223616-7	460-223616-8	460-248245-3	460-248245-5	460-277930-5
Date Sampled	AWQSGV	11/20/2018	12/31/2019	12/31/2019	11/24/2020	11/24/2020	12/01/2021	12/01/2021	04/04/2023
Analyte	µg/L								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total Conc	NS	0	0	0	0	0	0	0	0

Table 2
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW-1-123019	OU2-MW1_20201124	OU2-MW1_20211201	OUX-MWX_20211201
Lab Sample ID	Class GA	460-169852-3	460-200012-1	460-223616-3	460-248245-1	460-248245-4
Date Sampled	AWQSGV	11/20/2018	12/30/2019	11/24/2020	12/01/2021	12/01/2021
Analyte	µg/L					
2-Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
3 & 4 Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U
Benzo[a]anthracene	0.002	1 U	1 U	1 UJ	1 U	1 U
Benzo[a]pyrene	ND	1 U	1 U	1 U	1 U	1 U
Benzo[b]fluoranthene	0.002	2 U	2 U	2 U	2 U	2 U
Benzo[g,h,i]perylene	NS	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	1 U	1 U	1 U	1 U	1 U
Chrysene	0.002	2 U	2 U	10 UJ	2 U	2 U
Dibenz(a,h)anthracene	NS	1 U	1 U	1 U	1 U	1 U
Dibenzofuran	NS	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U	1 U	1 U
Indeno[1,2,3-cd]pyrene	0.002	2 U	2 U	2 U	2 U	2 U
Naphthalene	10	3.2 J	10 U	4.7	1.4 J	1.1 J
Pentachlorophenol	NS	20 U	20 U	30 UJ	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U
Phenol	NS	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 UJ	10 U	10 U
Total Conc	NS	3.2	0	4.7	1.4	1.1

Table 2
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC	OU2-MW1_20230404	OUX-MWX_20230404	Field Blank-112018	FB-123119	FB_20211201	FB_20230404
Lab Sample ID	Class GA	460-277930-1	460-277930-4	460-169852-2	460-200012-9	460-248245-3	460-277930-3
Date Sampled	AWQSGV	04/04/2023	04/04/2023	11/20/2018	12/31/2019	12/01/2021	04/04/2023
Analyte	µg/L						
2-Methylphenol	NS	10 U	10 U	10 U	10 U	10 U	10 U
3 & 4 Methylphenol	NS	12	11	10 U	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]anthracene	0.002	1 U	1 U	1 U	1 U	1 U	1 U
Benzo[a]pyrene	ND	1 U	1 U	1 U	1 U	1 U	1 U
Benzo[b]fluoranthene	0.002	2 U	2 U	2 U	2 U	2 U	2 U
Benzo[g,h,i]perylene	NS	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	0.002	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene	NS	1 U	1 U	1 UJ	1 U	1 U	1 U
Dibenzofuran	NS	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U	1 U	1 U	1 U
Indeno[1,2,3-cd]pyrene	0.002	2 U	2 U	2 UJ	2 U	2 U	2 U
Naphthalene	10	1.4 J	1.4 J	10 U	10 U	2 U	2 U
Pentachlorophenol	NS	20 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	NS	0.64 J	0.54 J	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Total Conc	NS	12.64	11.54	0	0	0	0

Table 3
Adelaar
Thompson, NY
 Periodic Review Report
 Groundwater Analytical Results - Polychlorinated Biphenyls (PCBs) and Pesticides

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW-1-123019	OU2-MW1_20201124	OU2-MW1_2021120	OUX-MWX_2021120
Lab Sample ID	Class GA	460-169852-3	460-200012-1	460-223616-3	460-248245-1	460-248245-4
Date Sampled	AWQSGV	11/20/2018	12/30/2019	11/24/2020	12/01/2021	12/01/2021
PCBs	µg/L					
Aroclor 1016	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1221	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1232	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1242	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1248	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1254	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1260	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor-1262	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Aroclor 1268	NS	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U
Polychlorinated biphenyls, Total	0.09	0.4 U	0.4 U	0.4 U	0.011 U	0.012 U

Pesticides	µg/L					
4,4'-DDD	0.3	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDE	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDT	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane (technical)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
delta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NS	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Endrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde	5	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Endrin ketone	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 3
Adelaar
Thompson, NY
 Periodic Review Report
 Groundwater Analytical Results - Polychlorinated Biphenyls (PCBs) and Pesticides

Client ID	NYSDEC	DU2-MW1_2023040	OUX-MWX_2023040	Field Blank-112018	FB-123119	FB_20211201	FB_20230404
Lab Sample ID	Class GA	460-277930-1	460-277930-4	460-169852-2	460-200012-9	460-248245-3	460-277930-3
Date Sampled	AWQSGV	04/04/2023	04/04/2023	11/20/2018	12/31/2019	12/01/2021	04/04/2023
PCBs	µg/L						
Aroclor 1016	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1221	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1232	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1242	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1248	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1254	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1260	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor-1262	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Aroclor 1268	NS	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Polychlorinated biphenyls, Total	0.09	0.011 U	0.012 U	0.4 U	0.4 U	0.01 U	0.01 U
Pesticides	µg/L						
4,4'-DDD	0.3	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDE	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDT	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane (technical)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
delta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin ketone	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 4
Adelaar
Thompson, NY
 Periodic Review Report
 Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU-2-MW1-112018	OU-3-MW2-112118	OU-2-MW-1-123019	OU-3-MW-2-123119	OU2-MW1_20201124
Lab Sample ID	Class GA	460-169852-3	460-169881-1	460-200012-1	460-200012-5	460-223616-3
Date Sampled	AWQSGV	11/20/2018	11/21/2018	12/30/2019	12/31/2019	11/24/2020
Dilution		1/2 †	1/2/10 †	1/2 †	1/2/10 †	1
Analyte	µg/L					
Arsenic	25	2.3	9	3.2	7.2	1.6 J
Barium	1,000	170	509	236	802	294
Beryllium	3	0.8 U	1.3	0.8 U	2.5	0.8 U
Cadmium	5	2 U	2 U	2 U	2 U	2 U
Chromium	50	4 U	34.3	4 U	34.9	1 J
Copper	200	3.6 J	51.6	4.1	74.8	4 U
Lead	25	3.3	24.9	1.9	53	1.3
Manganese	300	2,120	19,000	3,130	17,400	4,560
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	3.5 J	55.6	4 U	29.9	4 U
Selenium	10	10 U	10 U	10 U	10 U	2.5 U
Silver	50	2 U	2 U	2 U	2 U	2 U
Zinc	2,000	16 U	114	16 U	91.2	6.3 J

Table 4
Adelaar
Thompson, NY
 Periodic Review Report
 Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU3-MW2_20201123	OU2-MW1_20211201	OUX-MWX_20211201	OU2-MW1_20230404	OUX-MWX_20230404
Lab Sample ID	Class GA	460-223616-1	460-248245-1	460-248245-4	460-277930-1	460-277930-4
Date Sampled	AWQSGV	11/23/2020	12/01/2021	12/01/2021	04/04/2023	04/04/2023
Dilution		1/5 †	1/10 †	1/10 †	1	1
Analyte	µg/L					
Arsenic	25	1.2 J	5	4.8	3.1	3.5
Barium	1,000	286	482	495	183	189
Beryllium	3	0.8 U	0.13 J	0.5 U	0.8 U	0.8 U
Cadmium	5	0.22 J	0.5 U	0.5 U	0.2 U	0.2 U
Chromium	50	4	0.6 J	1 J	4 U	4 U
Copper	200	6.8	1.4	2.1	1 J	1.1 J
Lead	25	3.1	1.1	1.5	1.2 U	1.2 U
Manganese	300	15,400	10,100	8,550	8,310	8,700
Mercury	0.7	0.2 U	1.2	1.4	0.2 U	0.2 U
Nickel	100	5.5	1 U	1 U	1.9 J	1.6 J
Selenium	10	2.5 U	0.5 U	0.5 U	0.39 J	2.5 U
Silver	50	2 U	10 U	10 U	2 U	2 U
Zinc	2,000	23.7	0.2 U	0.2 U	3.9 JB	3.6 JB

Table 4
Adelaar
Thompson, NY
 Periodic Review Report
 Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU3-MW2_20211201	OU3-MW2_20230404	Field Blank-112018	FB-123119	FB_20211201
Lab Sample ID	Class GA	460-248245-2	460-277930-2	460-169852-2	460-200012-9	460-248245-3
Date Sampled	AWQSGV	12/01/2021	04/04/2023	11/20/2018	12/31/2019	12/01/2021
Dilution		1/10 †	1/10 †	1/2 †	1/2 †	1/2 †
Analyte	µg/L					
Arsenic	25	1.8 J	2 U	2 U	2 U	2 U
Barium	1,000	849	1,050	4 U	4 U	2 U
Beryllium	3	0.28 J	0.8 U	0.8 U	0.8 U	0.5 U
Cadmium	5	0.86	1.7 J	2 U	2 U	0.5 U
Chromium	50	4.5	4 U	4 U	4 U	2 U
Copper	200	7.5	4.2	4 U	4 U	1 U
Lead	25	4.1	1.2 U	1.2 U	1.2 U	0.5 U
Manganese	300	32,400	47,400	8 U	8 U	2 U
Mercury	0.7	14	0.2 U	0.2 U	0.2 U	1 U
Nickel	100	1 U	17.9	4 U	4 U	1 U
Selenium	10	0.5 U	2.5 U	10 U	10 U	0.5 U
Silver	50	18.8	2 U	2 U	2 U	10 U
Zinc	2,000	0.2 U	15.9 JB	16 U	16 U	0.2 U

Tables 1-4
Adelaar
Thompson, NY
Periodic Review Report
Notes

DEFINITIONS

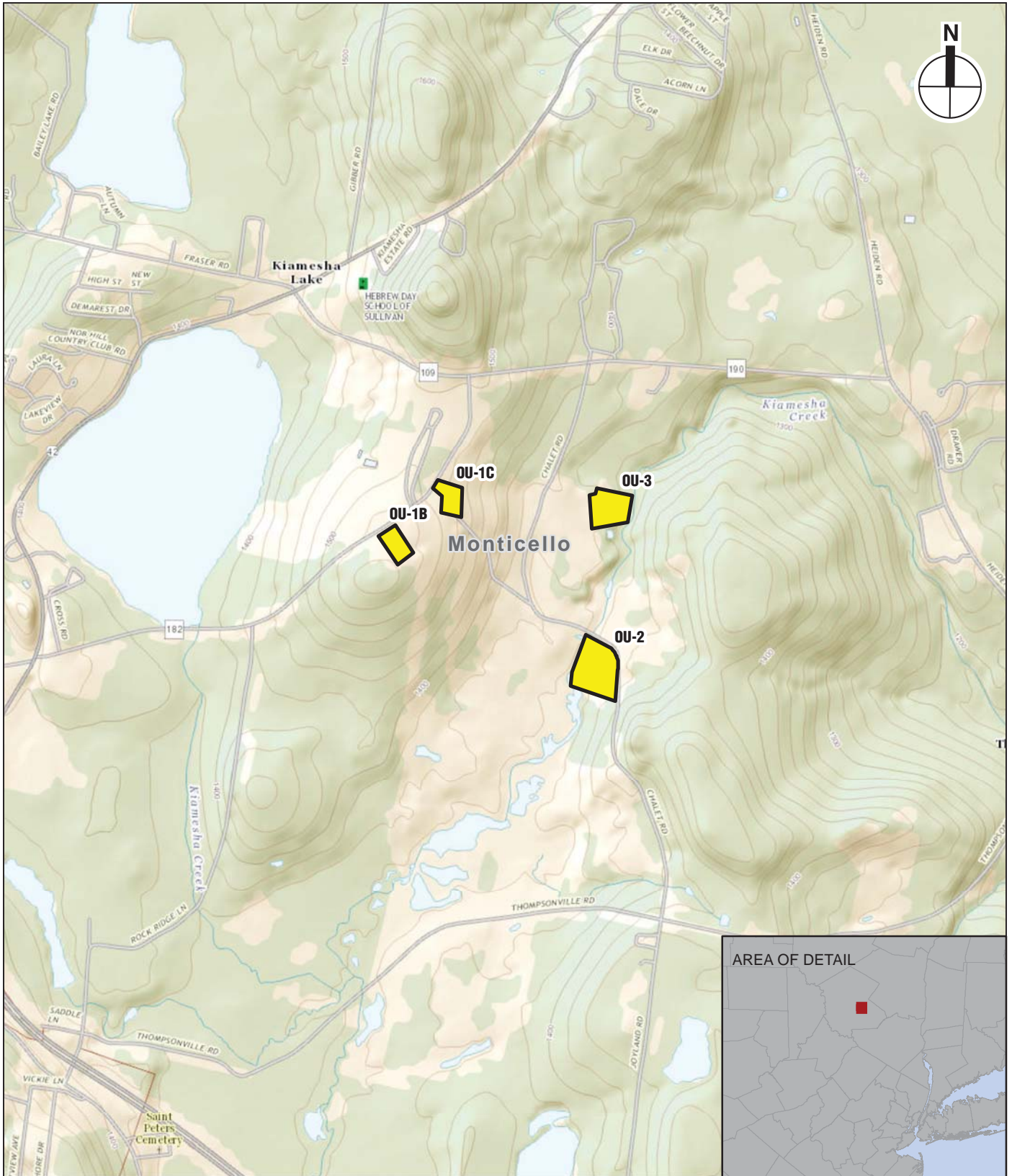
- B** : Compound was found in the blank and sample.
- J** : The concentration given is an estimated value.
- NS** : No standard.
- ND** : The standard is a non-detectable concentration by the approved analytical method.
- U** : The analyte was not detected at the indicated concentration.
- UJ** : The analyte was analyzed for but was not detected.
- * : LCS or LCSD is outside acceptable limits.
- † : Dilution factor varies.
- µg/L** : micrograms per Liter = parts per billion (ppb)

STANDARDS

NYSDEC : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational
Class GA : Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values
AWQSGVs (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in gray shading.

FIGURES

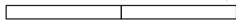


 Operational Unit

Approximate coordinates of Operational Units:

- OU-1B: 41° 40' 28" N, 74° 39' 22" W
- OU-1C: 41° 40' 34" N, 74° 39' 14" W
- OU-2: 41° 40' 14" N, 74° 38' 51" W
- OU-3: 41° 40' 33" N, 74° 38' 49" W

0 2,000 FEET

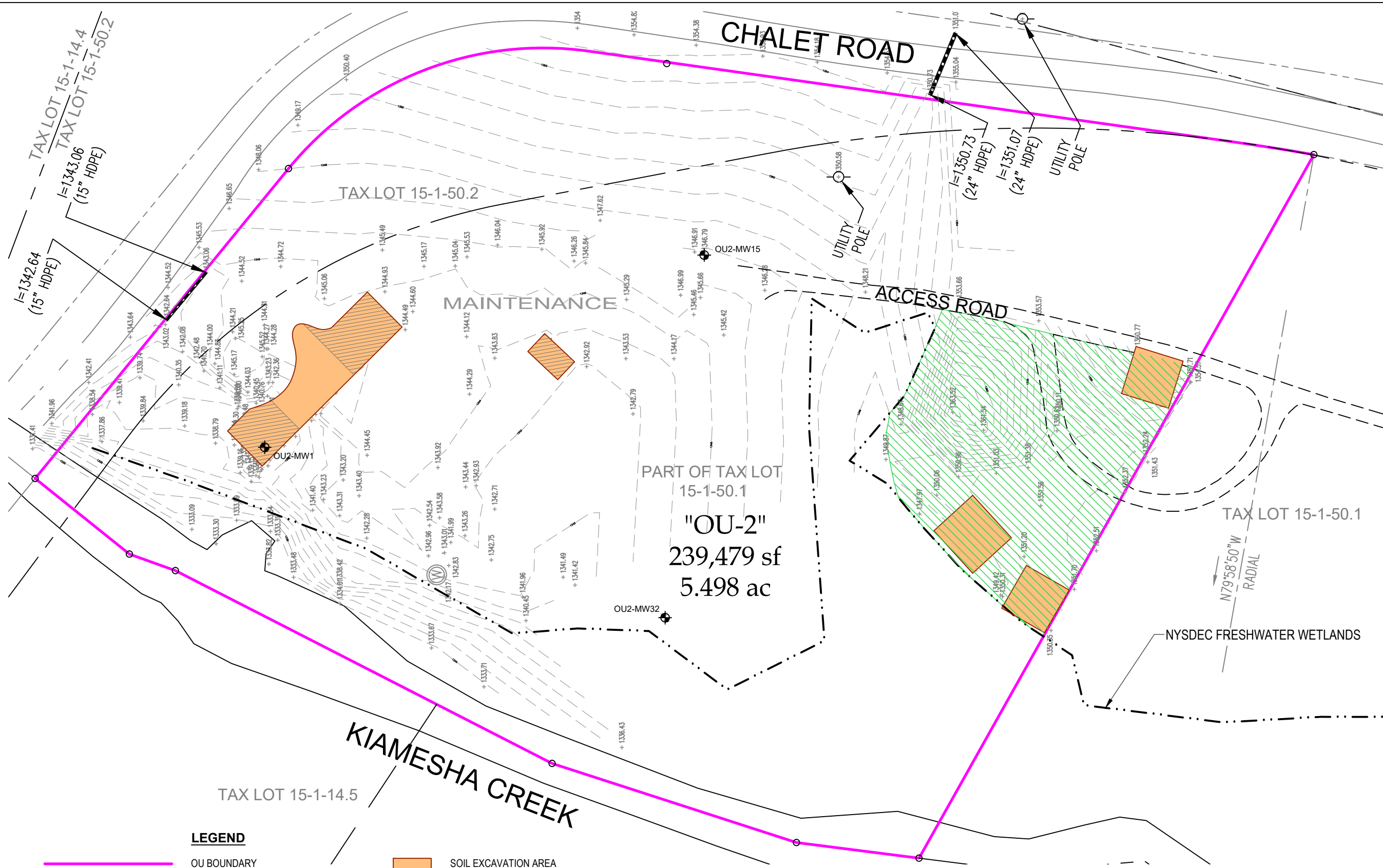


USGS 7.5 Minute Topographic Map
Monticello Quad
Figure 1


ADELAAR
NYSDEC Site No. C353014

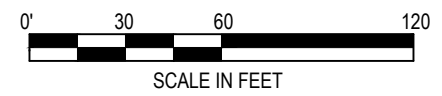
6/8/2023

©2023 AKRF, Inc. Q:\Projects\40376 - CONCORD RESORT\3-Gen Proj\Work\BCA\SMP\CAD\Figs 2A to 2B 2022.dwg last save: mvelieux 6/12/2023 5:31 PM



LEGEND

-  OU BOUNDARY
-  TAX PARCEL BOUNDARY
-  NYSDEC FRESHWATER WETLANDS
-  MONITORING WELL LOCATION
-  SOIL EXCAVATION AREA
-  BEDROCK
-  STORM WATER DRAINAGE PIPE
-  12-INCH SOIL CAP OVER LANDFILL



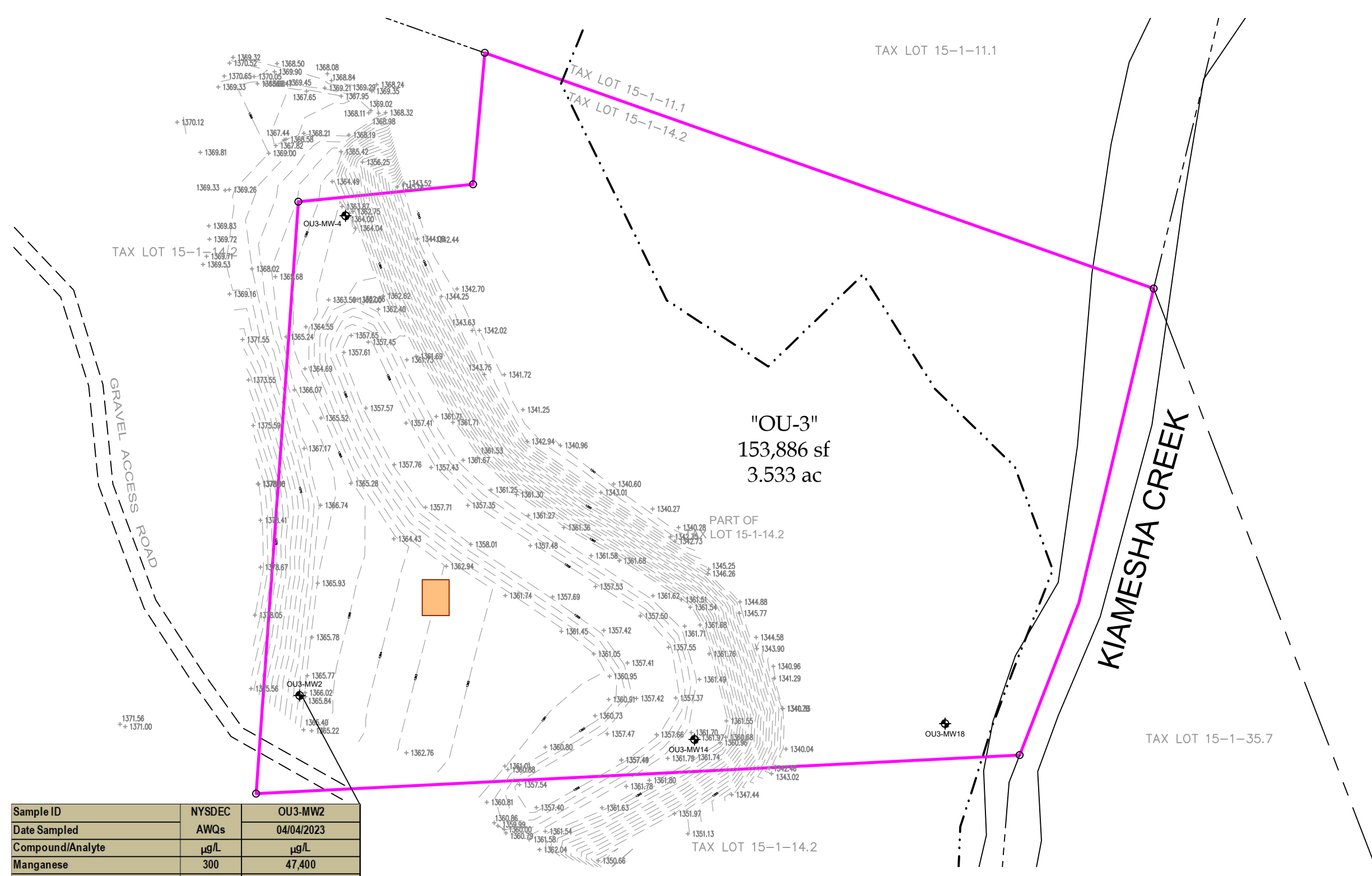
440 Park Avenue South, New York, NY 10016

Adelaar Site
Town of Thompson, New York

OU-2 SITE COVER SYSTEM AND MONITORING WELL LOCATIONS

DATE	6/12/2023
PROJECT NO.	40376
FIGURE	2A

©2023 AKRF, Inc. Q:\Projects\40376 - CONCORD RESORT\3-Gen Proj\WorkBCAS\MP\CAD\Figs 2A to 2B 2023.dwg last save: mvelieux 7/5/2023 8:48 AM

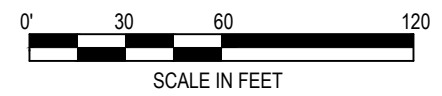


Sample ID	NYSDEC	OU3-MW2
Date Sampled	AWQs	04/04/2023
Compound/Analyte	µg/L	µg/L
Manganese	300	47,400
Barium	1,000	1,050

LEGEND

- OU BOUNDARY
- TAX PARCEL BOUNDARY
- NYSDEC FRESHWATER WETLANDS
- MONITORING WELL LOCATION
- SOIL EXCAVATION AREA

NYSDEC Class GA Ambient Standard:
 New York State Department of Environmental Conservation Technical
 and Operational Guidance Series (1.1.1): Class GA Ambient Water
 Quality Standards and Guidance Values and Groundwater
 Effluent Limitations. (AWQS)
 (µg/L) - micrograms per Liter = parts per billion (ppb)



440 Park Avenue South, New York, NY 10016

Adelaar Site

Town of Thompson, New York

**OU-3 POST-REMEDATION GROUNDWATER
 LABORATORY RESULTS**

DATE
7/5/2023

PROJECT NO.
40376

FIGURE
2B

APPENDIX A
SITE INSPECTION FORM AND GROUNDWATER SAMPLING LOGS

**ADELAAR
OU-2 AND OU3 SITE INSPECTION FORM
TOWN OF THOMPSON, NEW YORK**

Inspector Name: JOHN SULECH	Date: 4/4/2023			
Reviewed By:	Date:			
OU-2 Soil Cap over Landfill Area				
Site Cap - Soil Cover	Condition Observed			Comments
	Good	Maintenance Required ^{1/}	Contingency Action Required ^{2/}	
Subsidence/Settling	X			
Erosion/ Soil Deposition	X			
Vegetative cover	X			
Seeps	X			
Ponding	X			
<p>1/ - Contact the Adelaar Project Manager to coordinate maintenance activities. Document completed maintenance activities on this form.</p> <p>2/ - Immediately contact the Adelaar and AKRF Project Manager for contingency requirements. Notify NYSDEC within 24 hours and refer to Site Management Plan for contingency requirements.</p>				

Emergency Contact Information		
Name	Title	Contact Numbers
Marc Godick	AKRF Project Director	914-922-2356
Bryan Zieroff	AKRF Project Manager	914-922-2382
Paul Roggeman	Adelaar Project Manager	845-794-6060
Paul Turvey	EPR Concord II	816-472-1700



Well Sampling Log

Job No: <u>230074</u>	Client: <u>Concord/Adelaar/EPR</u>	Well No: <u>OU2-MW-1</u>
Project Location: <u>Concord/Adelaar/EPR</u>	Sampled By: <u>JS</u>	
Date: <u>4/4/23</u>	Sampling Time: <u>1005</u>	
LEL at surface: <u>NA</u>		
PID at surface: <u>ND</u>		

Total Depth: <u>11.95</u>	ft. below top of casing	Water Column (WC):	feet	*= 0.163 * WC for 2" wells
Depth to Water: <u>7.21</u>	ft. below top of casing	Well Volume*:	gallons	*= 0.653 * WC for 4" wells
Depth to Product: <u>NO</u>	ft. below top of casing	Volume Purged: <u>NT</u>	gallons	*= 1.469 * WC for 6" wells
Depth to top of screen:	ft. below top of casing	Well Diam.:	<u>2</u> inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	Purging Device (pump type): <u>3" WINDMILL DIAPHRAGM</u>		
Approx. Pump Intake: <u>ND</u>	ft. below top of casing			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
925	7.21	2100	8.03	0.546	11.25	5.59	110	371	NO ODOR NO SHEEN DUPE OUX-MWX - 20230404 TAKEN HERE
930			9.67	0.559	10.73	5.50	40	219	
935			9.83	0.538	9.90	5.74	-19	59.9	
940			8.77	0.546	10.40	5.93	-29	40.3	
945			8.85	0.561	9.59	5.90	-37	26.5	
950			8.92	0.575	9.43	5.91	-42	17.6	
955			9.05	0.587	9.42	5.94	-48	12.0	
1000			9.23	0.597	9.32	5.98	-51	9.3	
1005	SAMPLED								
110			9.43	0.602	9.28	6.01	-54	8.8	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
--------------------------------	-------------	--------------	------------------	-----------	---------	--

Groundwater samples analyzed for:

1/2



Well Sampling Log

Job No: 220029	Client: Concord/Adelaar/EPR	Well No: 003-MW2
Project Location: Concord/Adelaar/EPR	Sampled By: JS	
Date: 4/4/23	Sampling Time: 1450	
LEL at surface: NA		
PID at surface: M0		

Total Depth: 35.39 ft. below top of casing	Water Column (WC): feet	* = 0.163 * WC for 2" wells
Depth to Water: 29.50 ft. below top of casing	Well Volume*: gallons	* = 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: gallons	* = 1.469 * WC for 6" wells
Depth to top of screen: ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: ft. below top of casing	Purging Device (pump type):	
Approx. Pump Intake: ft. below top of casing	SUBMERGIBLE PUMP	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1305	29.50	2100	21.42	1.25	6.30	6.42	93	1000	NO ODOR NO SHEEN MS/MSD HERE
1310			21.41	1.25	5.21	6.43	109	1000	
1315			19.75	1.30	5.20	6.43	111	1000	
1320			19.02	1.31	5.87	6.47	112	612	
1325			17.10	1.50	6.05	6.52	111	372	
1330			16.72	1.74	6.09	6.56	110	260	
1335			13.84	2.23	7.20	6.62	102	174	
1340			13.19	2.49	7.13	6.67	105	152	
1345			13.07	2.62	7.13	6.66	103	144	
1350			13.32	2.76	6.92	6.66	103	137	
1355			13.03	2.95	6.78	6.65	102	132	
1400			13.29	3.07	6.76	6.66	102	121	
1405			13.37	3.21	6.34	6.63	102	112	
1410			13.03	3.21	6.76	6.62	101	92.1	
1415			13.13	3.43	6.64	6.60	101	86.9	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
--------------------------------	-------------	--------------	------------------	-----------	---------	--

Groundwater samples analyzed for:

APPENDIX B
LABORATORY ANALYTICAL REPORTS AND DATA USABILITY SUMMARY (DUSR) REPORTS

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Mr. Bryan Zieroff
AKRF Inc
34 South Broadway
Suite 314
White Plains, New York 10601

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JOB DESCRIPTION

Adelaar Concord - Monticello, NY

JOB NUMBER

460-277930-1

Eurofins Edison

Job Notes

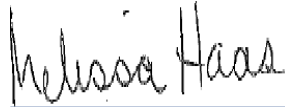
The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Edison and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Edison Project Manager or designee who has signed this report.

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

Compliance Statement

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 within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Authorization



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Authorized for release by
Melissa Haas, Senior Project Manager
Melissa.Haas@et.eurofinsus.com
(203)308-0880



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Definitions/Glossary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	Surrogate is outside acceptance limits.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Job ID: 460-277930-1

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Adelaar Concord - Monticello, NY

Report Number: 460-277930-1

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

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

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

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

RECEIPT

The samples were received on 04/05/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3), OUX-MWX_20230404 (460-277930-4) and TB_20230404 (460-277930-5) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/10/2023 and 04/11/2023.

The continuing calibration verification (CCV) associated with batch 460-902397 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-902213 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared and analyzed on 04/09/2023.

The continuing calibration verification (CCV) associated with batch 460-902197 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been

Case Narrative

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Job ID: 460-277930-1 (Continued)

Laboratory: Eurofins Edison (Continued)

reported.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 04/09/2023 and analyzed on 04/10/2023.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared and analyzed on 04/17/2023 and 04/19/2023.

The laboratory control sample (LCS) for preparation batch 410-364938 and analytical batch 410-365206 recovered outside the lower control limits for the following analytes: Aroclor 1016 and Aroclor 1260. The associated sample(s) were re-prepared and the LCS is within control limits, however the sample surrogate recovery is outside lower control limits. Results are reported from both trials. FB_20230404 (460-277930-3)

Aroclor 1016 and Aroclor 1260 failed the recovery criteria low for LCS 410-364938/2-A. Refer to the QC report for details.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples OU2-MW1_20230404 (460-277930-1), OU3-MW2_20230404 (460-277930-2), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 04/09/2023 and analyzed on 04/11/2023.

Zinc was detected in method blank MB 460-902221/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Barium and Manganese failed the recovery criteria high for the MS/MSD of sample OU3-MW2_20230404MS (460-277930-2) in batch 460-902495.

Sample OU3-MW2_20230404 (460-277930-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

MERCURY

Samples OU2-MW1_20230404 (460-277930-1), OU3-MW2_20230404 (460-277930-2), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/10/2023.

No difficulties were encountered during the Hg analysis.

Case Narrative

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Job ID: 460-277930-1 (Continued)

Laboratory: Eurofins Edison (Continued)

All quality control parameters were within the acceptance limits.

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Detection Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.0	J	5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	6.6		5.0	4.4	ug/L	1		8260D	Total/NA
Benzene	0.39	J	1.0	0.20	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.24	J	1.0	0.22	ug/L	1		8260D	Total/NA
Ethylbenzene	1.0		1.0	0.30	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.42	J	1.0	0.22	ug/L	1		8260D	Total/NA
Toluene	2.4		1.0	0.38	ug/L	1		8260D	Total/NA
3 & 4 Methylphenol	12		10	0.64	ug/L	1		8270E	Total/NA
Phenol	0.64	J	10	0.29	ug/L	1		8270E	Total/NA
Arsenic	3.1		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	183		4.0	0.93	ug/L	1		6020B	Total Recoverable
Copper	1.0	J	4.0	0.51	ug/L	1		6020B	Total Recoverable
Manganese	8310		8.0	0.60	ug/L	1		6020B	Total Recoverable
Nickel	1.9	J	4.0	1.4	ug/L	1		6020B	Total Recoverable
Selenium	0.39	J	2.5	0.34	ug/L	1		6020B	Total Recoverable
Zinc	3.9	J B	16.0	2.2	ug/L	1		6020B	Total Recoverable

Client Sample ID: OU3-MW2_20230404

Lab Sample ID: 460-277930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1050		4.0	0.93	ug/L	1		6020B	Total Recoverable
Cadmium	1.7	J	2.0	0.38	ug/L	1		6020B	Total Recoverable
Copper	4.2		4.0	0.51	ug/L	1		6020B	Total Recoverable
Manganese	47400		80.0	6.0	ug/L	10		6020B	Total Recoverable
Nickel	17.9		4.0	1.4	ug/L	1		6020B	Total Recoverable
Zinc	15.9	J B	16.0	2.2	ug/L	1		6020B	Total Recoverable

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.2	J	8.0	0.60	ug/L	1		6020B	Total Recoverable
Zinc	2.5	J B	16.0	2.2	ug/L	1		6020B	Total Recoverable

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.8	J	5.0	1.9	ug/L	1		8260D	Total/NA
Acetone	7.2		5.0	4.4	ug/L	1		8260D	Total/NA
Benzene	0.32	J	1.0	0.20	ug/L	1		8260D	Total/NA
Ethylbenzene	0.95	J	1.0	0.30	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.40	J	1.0	0.22	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Euromins Edison

Detection Summary

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OUX-MWX_20230404 (Continued)

Lab Sample ID: 460-277930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.2		1.0	0.38	ug/L	1		8260D	Total/NA
3 & 4 Methylphenol	11		10	0.64	ug/L	1		8270E	Total/NA
Phenol	0.54	J	10	0.29	ug/L	1		8270E	Total/NA
Arsenic	3.5		2.0	1.2	ug/L	1		6020B	Total Recoverable
Barium	189		4.0	0.93	ug/L	1		6020B	Total Recoverable
Copper	1.1	J	4.0	0.51	ug/L	1		6020B	Total Recoverable
Manganese	8700		8.0	0.60	ug/L	1		6020B	Total Recoverable
Nickel	1.6	J	4.0	1.4	ug/L	1		6020B	Total Recoverable
Zinc	3.6	J B	16.0	2.2	ug/L	1		6020B	Total Recoverable

Client Sample ID: TB_20230404

Lab Sample ID: 460-277930-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison



Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Date Collected: 04/04/23 10:05

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/23 01:31	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/10/23 01:31	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/23 01:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/23 01:31	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/23 01:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:31	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/23 01:31	1
2-Butanone (MEK)	3.0	J	5.0	1.9	ug/L			04/10/23 01:31	1
Acetone	6.6		5.0	4.4	ug/L			04/10/23 01:31	1
Benzene	0.39	J	1.0	0.20	ug/L			04/10/23 01:31	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/23 01:31	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/23 01:31	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/23 01:31	1
cis-1,2-Dichloroethene	0.24	J	1.0	0.22	ug/L			04/10/23 01:31	1
Ethylbenzene	1.0		1.0	0.30	ug/L			04/10/23 01:31	1
Methyl tert-butyl ether	0.42	J	1.0	0.22	ug/L			04/10/23 01:31	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/23 01:31	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:31	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:31	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:31	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:31	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/10/23 01:31	1
Toluene	2.4		1.0	0.38	ug/L			04/10/23 01:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/23 01:31	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/10/23 01:31	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/23 01:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/10/23 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 128		04/10/23 01:31	1
4-Bromofluorobenzene	110		76 - 120		04/10/23 01:31	1
Dibromofluoromethane (Surr)	106		77 - 124		04/10/23 01:31	1
Toluene-d8 (Surr)	105		80 - 120		04/10/23 01:31	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		04/09/23 08:04	04/09/23 20:41	1
3 & 4 Methylphenol	12		10	0.64	ug/L		04/09/23 08:04	04/09/23 20:41	1
Acenaphthene	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 20:41	1
Acenaphthylene	10	U	10	0.82	ug/L		04/09/23 08:04	04/09/23 20:41	1
Anthracene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 20:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		04/09/23 08:04	04/09/23 20:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		04/09/23 08:04	04/09/23 20:41	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		04/09/23 08:04	04/09/23 20:41	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		04/09/23 08:04	04/09/23 20:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		04/09/23 08:04	04/09/23 20:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		04/09/23 08:04	04/09/23 20:41	1

Eurofins Edison

Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Date Collected: 04/04/23 10:05

Matrix: Water

Date Received: 04/05/23 19:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		04/09/23 08:04	04/09/23 20:41	1
Dibenzofuran	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 20:41	1
Fluoranthene	10	U	10	0.84	ug/L		04/09/23 08:04	04/09/23 20:41	1
Fluorene	10	U	10	0.91	ug/L		04/09/23 08:04	04/09/23 20:41	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		04/09/23 08:04	04/09/23 20:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		04/09/23 08:04	04/09/23 20:41	1
Naphthalene	2.0	U	2.0	0.54	ug/L		04/09/23 08:04	04/09/23 20:41	1
Pentachlorophenol	20	U	20	1.4	ug/L		04/09/23 08:04	04/09/23 20:41	1
Phenanthrene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 20:41	1
Phenol	0.64	J	10	0.29	ug/L		04/09/23 08:04	04/09/23 20:41	1
Pyrene	10	U	10	1.6	ug/L		04/09/23 08:04	04/09/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	136		37 - 150	04/09/23 08:04	04/09/23 20:41	1
2-Fluorobiphenyl	116		46 - 139	04/09/23 08:04	04/09/23 20:41	1
2-Fluorophenol (Surr)	56		19 - 80	04/09/23 08:04	04/09/23 20:41	1
Nitrobenzene-d5 (Surr)	115		52 - 137	04/09/23 08:04	04/09/23 20:41	1
Phenol-d5 (Surr)	36		10 - 56	04/09/23 08:04	04/09/23 20:41	1
Terphenyl-d14 (Surr)	54		22 - 150	04/09/23 08:04	04/09/23 20:41	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:13	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:13	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:13	1
Aldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:13	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		04/09/23 08:14	04/10/23 10:13	1
beta-BHC	0.020	U	0.020	0.015	ug/L		04/09/23 08:14	04/10/23 10:13	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		04/09/23 08:14	04/10/23 10:13	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:13	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:13	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endrin	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:13	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:13	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		04/09/23 08:14	04/10/23 10:13	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:13	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:13	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:13	1
Toxaphene	0.50	U	0.50	0.11	ug/L		04/09/23 08:14	04/10/23 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		15 - 121	04/09/23 08:14	04/10/23 10:13	1
DCB Decachlorobiphenyl	79		15 - 121	04/09/23 08:14	04/10/23 10:13	1
Tetrachloro-m-xylene	78		17 - 120	04/09/23 08:14	04/10/23 10:13	1
Tetrachloro-m-xylene	71		17 - 120	04/09/23 08:14	04/10/23 10:13	1

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Client Sample Results

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Date Collected: 04/04/23 10:05

Matrix: Water

Date Received: 04/05/23 19:00

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.011	U	0.011	0.0089	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1221	0.011	U	0.011	0.0089	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1232	0.011	U	0.011	0.0089	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1242	0.011	U	0.011	0.0089	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1248	0.011	U	0.011	0.0089	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1254	0.011	U	0.011	0.0056	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1260	0.011	U	0.011	0.0056	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1262	0.011	U	0.011	0.0056	ug/L		04/19/23 09:30	04/19/23 18:27	1
Aroclor 1268	0.011	U	0.011	0.0056	ug/L		04/19/23 09:30	04/19/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	78		46 - 161	04/19/23 09:30	04/19/23 18:27	1
DCB Decachlorobiphenyl (Surr)	84		46 - 161	04/19/23 09:30	04/19/23 18:27	1
Tetrachloro-m-xylene	47		41 - 146	04/19/23 09:30	04/19/23 18:27	1
Tetrachloro-m-xylene	48		41 - 146	04/19/23 09:30	04/19/23 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		2.0	1.2	ug/L		04/09/23 17:55	04/11/23 13:00	1
Barium	183		4.0	0.93	ug/L		04/09/23 17:55	04/11/23 13:00	1
Beryllium	0.80	U	0.80	0.12	ug/L		04/09/23 17:55	04/11/23 13:00	1
Cadmium	2.0	U	2.0	0.38	ug/L		04/09/23 17:55	04/11/23 13:00	1
Chromium	4.0	U	4.0	1.7	ug/L		04/09/23 17:55	04/11/23 13:00	1
Copper	1.0	J	4.0	0.51	ug/L		04/09/23 17:55	04/11/23 13:00	1
Lead	1.2	U	1.2	0.30	ug/L		04/09/23 17:55	04/11/23 13:00	1
Manganese	8310		8.0	0.60	ug/L		04/09/23 17:55	04/11/23 13:00	1
Nickel	1.9	J	4.0	1.4	ug/L		04/09/23 17:55	04/11/23 13:00	1
Selenium	0.39	J	2.5	0.34	ug/L		04/09/23 17:55	04/11/23 13:00	1
Silver	2.0	U	2.0	1.3	ug/L		04/09/23 17:55	04/11/23 13:00	1
Zinc	3.9	J B	16.0	2.2	ug/L		04/09/23 17:55	04/11/23 13:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/10/23 14:03	04/10/23 15:43	1

Client Sample ID: OU3-MW2_20230404

Lab Sample ID: 460-277930-2

Date Collected: 04/04/23 14:50

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	1.2	ug/L		04/09/23 17:55	04/11/23 12:43	1
Barium	1050		4.0	0.93	ug/L		04/09/23 17:55	04/11/23 12:43	1
Beryllium	0.80	U	0.80	0.12	ug/L		04/09/23 17:55	04/11/23 12:43	1
Cadmium	1.7	J	2.0	0.38	ug/L		04/09/23 17:55	04/11/23 12:43	1
Chromium	4.0	U	4.0	1.7	ug/L		04/09/23 17:55	04/11/23 12:43	1
Copper	4.2		4.0	0.51	ug/L		04/09/23 17:55	04/11/23 12:43	1
Lead	1.2	U	1.2	0.30	ug/L		04/09/23 17:55	04/11/23 12:43	1
Manganese	47400		80.0	6.0	ug/L		04/09/23 17:55	04/11/23 14:06	10
Nickel	17.9		4.0	1.4	ug/L		04/09/23 17:55	04/11/23 12:43	1
Selenium	2.5	U	2.5	0.34	ug/L		04/09/23 17:55	04/11/23 12:43	1

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Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU3-MW2_20230404

Lab Sample ID: 460-277930-2

Date Collected: 04/04/23 14:50

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	2.0	U	2.0	1.3	ug/L		04/09/23 17:55	04/11/23 12:43	1
Zinc	15.9	J B	16.0	2.2	ug/L		04/09/23 17:55	04/11/23 12:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/10/23 14:03	04/10/23 15:01	1

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Date Collected: 04/04/23 10:10

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/23 01:09	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/10/23 01:09	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/23 01:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/23 01:09	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/23 01:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:09	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/23 01:09	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/23 01:09	1
Acetone	5.0	U	5.0	4.4	ug/L			04/10/23 01:09	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/23 01:09	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/23 01:09	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/23 01:09	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/23 01:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/23 01:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/23 01:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/10/23 01:09	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/23 01:09	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:09	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:09	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:09	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:09	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/10/23 01:09	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/23 01:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/23 01:09	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/10/23 01:09	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/23 01:09	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/10/23 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 128		04/10/23 01:09	1
4-Bromofluorobenzene	102		76 - 120		04/10/23 01:09	1
Dibromofluoromethane (Surr)	102		77 - 124		04/10/23 01:09	1
Toluene-d8 (Surr)	99		80 - 120		04/10/23 01:09	1

Euromins Edison

Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Date Collected: 04/04/23 10:10

Matrix: Water

Date Received: 04/05/23 19:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		04/09/23 08:04	04/09/23 21:03	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		04/09/23 08:04	04/09/23 21:03	1
Acenaphthene	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 21:03	1
Acenaphthylene	10	U	10	0.82	ug/L		04/09/23 08:04	04/09/23 21:03	1
Anthracene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 21:03	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		04/09/23 08:04	04/09/23 21:03	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		04/09/23 08:04	04/09/23 21:03	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		04/09/23 08:04	04/09/23 21:03	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		04/09/23 08:04	04/09/23 21:03	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		04/09/23 08:04	04/09/23 21:03	1
Chrysene	2.0	U	2.0	0.91	ug/L		04/09/23 08:04	04/09/23 21:03	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		04/09/23 08:04	04/09/23 21:03	1
Dibenzofuran	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 21:03	1
Fluoranthene	10	U	10	0.84	ug/L		04/09/23 08:04	04/09/23 21:03	1
Fluorene	10	U	10	0.91	ug/L		04/09/23 08:04	04/09/23 21:03	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		04/09/23 08:04	04/09/23 21:03	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		04/09/23 08:04	04/09/23 21:03	1
Naphthalene	2.0	U	2.0	0.54	ug/L		04/09/23 08:04	04/09/23 21:03	1
Pentachlorophenol	20	U	20	1.4	ug/L		04/09/23 08:04	04/09/23 21:03	1
Phenanthrene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 21:03	1
Phenol	10	U	10	0.29	ug/L		04/09/23 08:04	04/09/23 21:03	1
Pyrene	10	U	10	1.6	ug/L		04/09/23 08:04	04/09/23 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		37 - 150	04/09/23 08:04	04/09/23 21:03	1
2-Fluorobiphenyl	105		46 - 139	04/09/23 08:04	04/09/23 21:03	1
2-Fluorophenol (Surr)	50		19 - 80	04/09/23 08:04	04/09/23 21:03	1
Nitrobenzene-d5 (Surr)	108		52 - 137	04/09/23 08:04	04/09/23 21:03	1
Phenol-d5 (Surr)	32		10 - 56	04/09/23 08:04	04/09/23 21:03	1
Terphenyl-d14 (Surr)	79		22 - 150	04/09/23 08:04	04/09/23 21:03	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:29	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:29	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:29	1
Aldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:29	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		04/09/23 08:14	04/10/23 10:29	1
beta-BHC	0.020	U	0.020	0.015	ug/L		04/09/23 08:14	04/10/23 10:29	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		04/09/23 08:14	04/10/23 10:29	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:29	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:29	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endrin	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:29	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:29	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		04/09/23 08:14	04/10/23 10:29	1

Euromins Edison

Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Date Collected: 04/04/23 10:10

Matrix: Water

Date Received: 04/05/23 19:00

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:29	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:29	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:29	1
Toxaphene	0.50	U	0.50	0.11	ug/L		04/09/23 08:14	04/10/23 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		15 - 121	04/09/23 08:14	04/10/23 10:29	1
DCB Decachlorobiphenyl	76		15 - 121	04/09/23 08:14	04/10/23 10:29	1
Tetrachloro-m-xylene	76		17 - 120	04/09/23 08:14	04/10/23 10:29	1
Tetrachloro-m-xylene	74		17 - 120	04/09/23 08:14	04/10/23 10:29	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.012	U *	0.012	0.0093	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1221	0.012	U	0.012	0.0093	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1232	0.012	U	0.012	0.0093	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1242	0.012	U	0.012	0.0093	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1248	0.012	U	0.012	0.0093	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1254	0.012	U	0.012	0.0058	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1260	0.012	U *	0.012	0.0058	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1262	0.012	U	0.012	0.0058	ug/L		04/17/23 10:02	04/17/23 17:44	1
Aroclor 1268	0.012	U	0.012	0.0058	ug/L		04/17/23 10:02	04/17/23 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	103		46 - 161	04/17/23 10:02	04/17/23 17:44	1
DCB Decachlorobiphenyl (Surr)	109		46 - 161	04/17/23 10:02	04/17/23 17:44	1
Tetrachloro-m-xylene	58		41 - 146	04/17/23 10:02	04/17/23 17:44	1
Tetrachloro-m-xylene	59		41 - 146	04/17/23 10:02	04/17/23 17:44	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1221	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1232	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1242	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1248	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1254	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1260	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1262	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:40	1
Aroclor 1268	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121		46 - 161	04/19/23 09:30	04/19/23 18:40	1
DCB Decachlorobiphenyl (Surr)	127		46 - 161	04/19/23 09:30	04/19/23 18:40	1
Tetrachloro-m-xylene	38	*	41 - 146	04/19/23 09:30	04/19/23 18:40	1
Tetrachloro-m-xylene	40	*	41 - 146	04/19/23 09:30	04/19/23 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	1.2	ug/L		04/09/23 17:55	04/11/23 13:03	1
Barium	4.0	U	4.0	0.93	ug/L		04/09/23 17:55	04/11/23 13:03	1

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Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Date Collected: 04/04/23 10:10

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.80	U	0.80	0.12	ug/L		04/09/23 17:55	04/11/23 13:03	1
Cadmium	2.0	U	2.0	0.38	ug/L		04/09/23 17:55	04/11/23 13:03	1
Chromium	4.0	U	4.0	1.7	ug/L		04/09/23 17:55	04/11/23 13:03	1
Copper	4.0	U	4.0	0.51	ug/L		04/09/23 17:55	04/11/23 13:03	1
Lead	1.2	U	1.2	0.30	ug/L		04/09/23 17:55	04/11/23 13:03	1
Manganese	2.2	J	8.0	0.60	ug/L		04/09/23 17:55	04/11/23 13:03	1
Nickel	4.0	U	4.0	1.4	ug/L		04/09/23 17:55	04/11/23 13:03	1
Selenium	2.5	U	2.5	0.34	ug/L		04/09/23 17:55	04/11/23 13:03	1
Silver	2.0	U	2.0	1.3	ug/L		04/09/23 17:55	04/11/23 13:03	1
Zinc	2.5	J B	16.0	2.2	ug/L		04/09/23 17:55	04/11/23 13:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/10/23 14:03	04/10/23 15:48	1

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/23 01:52	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/10/23 01:52	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/23 01:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/23 01:52	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/23 01:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/23 01:52	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/23 01:52	1
2-Butanone (MEK)	2.8	J	5.0	1.9	ug/L			04/10/23 01:52	1
Acetone	7.2		5.0	4.4	ug/L			04/10/23 01:52	1
Benzene	0.32	J	1.0	0.20	ug/L			04/10/23 01:52	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/23 01:52	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/23 01:52	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/23 01:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/23 01:52	1
Ethylbenzene	0.95	J	1.0	0.30	ug/L			04/10/23 01:52	1
Methyl tert-butyl ether	0.40	J	1.0	0.22	ug/L			04/10/23 01:52	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/23 01:52	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:52	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/10/23 01:52	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/10/23 01:52	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/10/23 01:52	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/10/23 01:52	1
Toluene	2.2		1.0	0.38	ug/L			04/10/23 01:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/23 01:52	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/10/23 01:52	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/23 01:52	1

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Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/10/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 128					04/10/23 01:52	1
4-Bromofluorobenzene	103		76 - 120					04/10/23 01:52	1
Dibromofluoromethane (Surr)	101		77 - 124					04/10/23 01:52	1
Toluene-d8 (Surr)	102		80 - 120					04/10/23 01:52	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		04/09/23 08:04	04/09/23 21:24	1
3 & 4 Methylphenol	11		10	0.64	ug/L		04/09/23 08:04	04/09/23 21:24	1
Acenaphthene	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 21:24	1
Acenaphthylene	10	U	10	0.82	ug/L		04/09/23 08:04	04/09/23 21:24	1
Anthracene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 21:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		04/09/23 08:04	04/09/23 21:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		04/09/23 08:04	04/09/23 21:24	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		04/09/23 08:04	04/09/23 21:24	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		04/09/23 08:04	04/09/23 21:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		04/09/23 08:04	04/09/23 21:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		04/09/23 08:04	04/09/23 21:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		04/09/23 08:04	04/09/23 21:24	1
Dibenzofuran	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 21:24	1
Fluoranthene	10	U	10	0.84	ug/L		04/09/23 08:04	04/09/23 21:24	1
Fluorene	10	U	10	0.91	ug/L		04/09/23 08:04	04/09/23 21:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		04/09/23 08:04	04/09/23 21:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		04/09/23 08:04	04/09/23 21:24	1
Naphthalene	2.0	U	2.0	0.54	ug/L		04/09/23 08:04	04/09/23 21:24	1
Pentachlorophenol	20	U	20	1.4	ug/L		04/09/23 08:04	04/09/23 21:24	1
Phenanthrene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 21:24	1
Phenol	0.54	J	10	0.29	ug/L		04/09/23 08:04	04/09/23 21:24	1
Pyrene	10	U	10	1.6	ug/L		04/09/23 08:04	04/09/23 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	124		37 - 150				04/09/23 08:04	04/09/23 21:24	1
2-Fluorobiphenyl	105		46 - 139				04/09/23 08:04	04/09/23 21:24	1
2-Fluorophenol (Surr)	51		19 - 80				04/09/23 08:04	04/09/23 21:24	1
Nitrobenzene-d5 (Surr)	106		52 - 137				04/09/23 08:04	04/09/23 21:24	1
Phenol-d5 (Surr)	32		10 - 56				04/09/23 08:04	04/09/23 21:24	1
Terphenyl-d14 (Surr)	47		22 - 150				04/09/23 08:04	04/09/23 21:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:45	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:45	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:45	1
Aldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:45	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		04/09/23 08:14	04/10/23 10:45	1
beta-BHC	0.020	U	0.020	0.015	ug/L		04/09/23 08:14	04/10/23 10:45	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		04/09/23 08:14	04/10/23 10:45	1

Euromins Edison

Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:45	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:45	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endrin	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:45	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 10:45	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		04/09/23 08:14	04/10/23 10:45	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 10:45	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 10:45	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 10:45	1
Toxaphene	0.50	U	0.50	0.11	ug/L		04/09/23 08:14	04/10/23 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		15 - 121				04/09/23 08:14	04/10/23 10:45	1
DCB Decachlorobiphenyl	77		15 - 121				04/09/23 08:14	04/10/23 10:45	1
Tetrachloro-m-xylene	81		17 - 120				04/09/23 08:14	04/10/23 10:45	1
Tetrachloro-m-xylene	72		17 - 120				04/09/23 08:14	04/10/23 10:45	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1221	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1232	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1242	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1248	0.012	U	0.012	0.0095	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1254	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1260	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1262	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:53	1
Aroclor 1268	0.012	U	0.012	0.0060	ug/L		04/19/23 09:30	04/19/23 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	103		46 - 161				04/19/23 09:30	04/19/23 18:53	1
DCB Decachlorobiphenyl (Surr)	107		46 - 161				04/19/23 09:30	04/19/23 18:53	1
Tetrachloro-m-xylene	57		41 - 146				04/19/23 09:30	04/19/23 18:53	1
Tetrachloro-m-xylene	57		41 - 146				04/19/23 09:30	04/19/23 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		2.0	1.2	ug/L		04/09/23 17:55	04/11/23 13:05	1
Barium	189		4.0	0.93	ug/L		04/09/23 17:55	04/11/23 13:05	1
Beryllium	0.80	U	0.80	0.12	ug/L		04/09/23 17:55	04/11/23 13:05	1
Cadmium	2.0	U	2.0	0.38	ug/L		04/09/23 17:55	04/11/23 13:05	1
Chromium	4.0	U	4.0	1.7	ug/L		04/09/23 17:55	04/11/23 13:05	1
Copper	1.1	J	4.0	0.51	ug/L		04/09/23 17:55	04/11/23 13:05	1
Lead	1.2	U	1.2	0.30	ug/L		04/09/23 17:55	04/11/23 13:05	1
Manganese	8700		8.0	0.60	ug/L		04/09/23 17:55	04/11/23 13:05	1
Nickel	1.6	J	4.0	1.4	ug/L		04/09/23 17:55	04/11/23 13:05	1

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Client Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.5	U	2.5	0.34	ug/L		04/09/23 17:55	04/11/23 13:05	1
Silver	2.0	U	2.0	1.3	ug/L		04/09/23 17:55	04/11/23 13:05	1
Zinc	3.6	J B	16.0	2.2	ug/L		04/09/23 17:55	04/11/23 13:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/10/23 14:03	04/10/23 15:50	1

Client Sample ID: TB_20230404

Lab Sample ID: 460-277930-5

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/11/23 10:31	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/11/23 10:31	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/11/23 10:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/11/23 10:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/11/23 10:31	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/11/23 10:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/11/23 10:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/11/23 10:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/11/23 10:31	1
1,4-Dioxane	50	U	50	28	ug/L			04/11/23 10:31	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/11/23 10:31	1
Acetone	5.0	U	5.0	4.4	ug/L			04/11/23 10:31	1
Benzene	1.0	U	1.0	0.20	ug/L			04/11/23 10:31	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/11/23 10:31	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/11/23 10:31	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/11/23 10:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/11/23 10:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/11/23 10:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/11/23 10:31	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/11/23 10:31	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/11/23 10:31	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/11/23 10:31	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/11/23 10:31	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/11/23 10:31	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/11/23 10:31	1
Toluene	1.0	U	1.0	0.38	ug/L			04/11/23 10:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/11/23 10:31	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/11/23 10:31	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/11/23 10:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/11/23 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 128		04/11/23 10:31	1
4-Bromofluorobenzene	101		76 - 120		04/11/23 10:31	1
Dibromofluoromethane (Surr)	97		77 - 124		04/11/23 10:31	1
Toluene-d8 (Surr)	97		80 - 120		04/11/23 10:31	1

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Surrogate Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-128)	BFB (76-120)	DBFM (77-124)	TOL (80-120)
460-277930-1	OU2-MW1_20230404	98	110	106	105
460-277930-3	FB_20230404	90	102	102	99
460-277930-4	OUX-MWX_20230404	91	103	101	102
460-277930-5	TB_20230404	93	101	97	97
LCS 460-902213/4	Lab Control Sample	82	94	87	94
LCS 460-902397/4	Lab Control Sample	95	101	95	100
LCSD 460-902213/5	Lab Control Sample Dup	86	97	90	93
LCSD 460-902397/5	Lab Control Sample Dup	89	101	90	101
MB 460-902213/9	Method Blank	86	94	97	92
MB 460-902397/9	Method Blank	93	100	98	95

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (37-150)	FBP (46-139)	2FP (19-80)	NBZ (52-137)	PHL (10-56)	TPHL (22-150)
460-277930-1	OU2-MW1_20230404	136	116	56	115	36	54
460-277930-3	FB_20230404	114	105	50	108	32	79
460-277930-4	OUX-MWX_20230404	124	105	51	106	32	47
LCS 460-902159/2-A	Lab Control Sample	103	88	39	86	27	69
LCSD 460-902159/3-A	Lab Control Sample Dup	103	89	40	87	27	66
MB 460-902159/1-A	Method Blank	92	99	45	102	30	65

Surrogate Legend

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

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (15-121)	DCBP2 (15-121)	TCX1 (17-120)	TCX2 (17-120)
460-277930-1	OU2-MW1_20230404	79	82	71	78
460-277930-3	FB_20230404	76	75	74	76
460-277930-4	OUX-MWX_20230404	77	84	72	81
480-207480-E-1-A MSD	Matrix Spike Duplicate	88	89	85	85
480-207480-F-1-A MS	Matrix Spike	90	88	90	87
LCS 460-902160/2-A	Lab Control Sample	87	86	91	88
LCSD 460-902160/3-A	Lab Control Sample Dup	88	87	90	87

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Surrogate Summary

Client: AKRF Inc

Job ID: 460-277930-1

Project/Site: Adelaar Concord - Monticello, NY

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (15-121)	DCBP2 (15-121)	TCX1 (17-120)	TCX2 (17-120)
MB 460-902160/1-A	Method Blank	95	93	92	96

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-121855-C-1-A MS	Matrix Spike	79	84	52	52
410-121855-C-1-B MSD	Matrix Spike Duplicate	83	87	56	56
410-121855-D-1-A MS - RA	Matrix Spike	94	101	65	65
410-121855-D-1-B MSD - RA	Matrix Spike Duplicate	99	104	66	68
460-277930-1	OU2-MW1_20230404	78	84	47	48
460-277930-3	FB_20230404	103	109	58	59
460-277930-3 - RA	FB_20230404	121	127	38 *	40 *
460-277930-4	OUX-MWX_20230404	103	107	57	57
LCS 410-364938/2-A	Lab Control Sample	101	105	42	44
LCS 410-365875/2-A	Lab Control Sample	130	134	61	62
MB 410-364938/1-A	Method Blank	89	95	41	43
MB 410-365875/1-A	Method Blank	123	123	56	58

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: MB 460-902213/9
Matrix: Water
Analysis Batch: 902213

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/09/23 21:18	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/09/23 21:18	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/09/23 21:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/09/23 21:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/09/23 21:18	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/09/23 21:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/09/23 21:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/09/23 21:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/09/23 21:18	1
1,4-Dioxane	50	U	50	28	ug/L			04/09/23 21:18	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/09/23 21:18	1
Acetone	5.0	U	5.0	4.4	ug/L			04/09/23 21:18	1
Benzene	1.0	U	1.0	0.20	ug/L			04/09/23 21:18	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/09/23 21:18	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/09/23 21:18	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/09/23 21:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/09/23 21:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/09/23 21:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/09/23 21:18	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/09/23 21:18	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/09/23 21:18	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/09/23 21:18	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/09/23 21:18	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/09/23 21:18	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/09/23 21:18	1
Toluene	1.0	U	1.0	0.38	ug/L			04/09/23 21:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/09/23 21:18	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/09/23 21:18	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/09/23 21:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/09/23 21:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	86		70 - 128		04/09/23 21:18	1
4-Bromofluorobenzene	94		76 - 120		04/09/23 21:18	1
Dibromofluoromethane (Surr)	97		77 - 124		04/09/23 21:18	1
Toluene-d8 (Surr)	92		80 - 120		04/09/23 21:18	1

Lab Sample ID: LCS 460-902213/4
Matrix: Water
Analysis Batch: 902213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	20.9		ug/L		105	73 - 130
1,1-Dichloroethene	20.0	19.4		ug/L		97	68 - 133
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		104	75 - 125
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	17.2		ug/L		86	66 - 129

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: LCS 460-902213/4
Matrix: Water
Analysis Batch: 902213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	75 - 125
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,4-Dioxane	400	398		ug/L		99	62 - 142
2-Butanone (MEK)	100	73.6		ug/L		74	61 - 128
Acetone	100	84.6		ug/L		85	61 - 134
Benzene	20.0	21.3		ug/L		107	71 - 126
Carbon tetrachloride	20.0	18.4		ug/L		92	61 - 131
Chlorobenzene	20.0	20.1		ug/L		100	80 - 120
Chloroform	20.0	18.2		ug/L		91	78 - 125
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	78 - 121
Ethylbenzene	20.0	20.2		ug/L		101	78 - 120
Methyl tert-butyl ether	20.0	18.3		ug/L		91	72 - 131
Methylene Chloride	20.0	21.1		ug/L		105	74 - 127
m-Xylene & p-Xylene	20.0	20.2		ug/L		101	78 - 120
n-Butylbenzene	20.0	21.6		ug/L		108	69 - 135
N-Propylbenzene	20.0	21.5		ug/L		108	68 - 129
o-Xylene	20.0	20.0		ug/L		100	78 - 120
sec-Butylbenzene	20.0	21.8		ug/L		109	73 - 129
tert-Butylbenzene	20.0	20.3		ug/L		102	72 - 124
Tetrachloroethene	20.0	19.7		ug/L		99	70 - 127
Toluene	20.0	19.4		ug/L		97	78 - 120
trans-1,2-Dichloroethene	20.0	18.3		ug/L		92	74 - 126
Trichloroethene	20.0	18.4		ug/L		92	71 - 121
Vinyl chloride	20.0	22.0		ug/L		110	55 - 144
Xylenes, Total	40.0	40.2		ug/L		100	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 128
4-Bromofluorobenzene	94		76 - 120
Dibromofluoromethane (Surr)	87		77 - 124
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 460-902213/5
Matrix: Water
Analysis Batch: 902213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.5		ug/L		92	68 - 128	0	30
1,1-Dichloroethane	20.0	21.1		ug/L		105	73 - 130	1	30
1,1-Dichloroethene	20.0	20.1		ug/L		100	68 - 133	3	30
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 125	5	30
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	80 - 120	6	30
1,2-Dichloroethane	20.0	16.9		ug/L		85	66 - 129	2	30
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 125	7	30
1,3-Dichlorobenzene	20.0	19.1		ug/L		95	80 - 120	8	30
1,4-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	6	30
1,4-Dioxane	400	395		ug/L		99	62 - 142	1	30

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: LCSD 460-902213/5
Matrix: Water
Analysis Batch: 902213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	100	67.8		ug/L		68	61 - 128	8	30
Acetone	100	77.0		ug/L		77	61 - 134	9	30
Benzene	20.0	20.4		ug/L		102	71 - 126	4	30
Carbon tetrachloride	20.0	18.3		ug/L		92	61 - 131	1	30
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	30
Chloroform	20.0	18.6		ug/L		93	78 - 125	2	30
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	78 - 121	1	30
Ethylbenzene	20.0	20.5		ug/L		103	78 - 120	1	30
Methyl tert-butyl ether	20.0	18.1		ug/L		90	72 - 131	1	30
Methylene Chloride	20.0	20.3		ug/L		101	74 - 127	4	30
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	78 - 120	2	30
n-Butylbenzene	20.0	20.8		ug/L		104	69 - 135	3	30
N-Propylbenzene	20.0	20.9		ug/L		105	68 - 129	3	30
o-Xylene	20.0	20.0		ug/L		100	78 - 120	0	30
sec-Butylbenzene	20.0	20.7		ug/L		103	73 - 129	5	30
tert-Butylbenzene	20.0	19.3		ug/L		96	72 - 124	5	30
Tetrachloroethene	20.0	19.0		ug/L		95	70 - 127	4	30
Toluene	20.0	19.1		ug/L		95	78 - 120	2	30
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	74 - 126	5	30
Trichloroethene	20.0	17.9		ug/L		90	71 - 121	3	30
Vinyl chloride	20.0	22.5		ug/L		113	55 - 144	2	30
Xylenes, Total	40.0	39.8		ug/L		100	78 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 128
4-Bromofluorobenzene	97		76 - 120
Dibromofluoromethane (Surr)	90		77 - 124
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: MB 460-902397/9
Matrix: Water
Analysis Batch: 902397

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/11/23 10:10	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/11/23 10:10	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/11/23 10:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			04/11/23 10:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/11/23 10:10	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/11/23 10:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/11/23 10:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/11/23 10:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/11/23 10:10	1
1,4-Dioxane	50	U	50	28	ug/L			04/11/23 10:10	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/11/23 10:10	1
Acetone	5.0	U	5.0	4.4	ug/L			04/11/23 10:10	1
Benzene	1.0	U	1.0	0.20	ug/L			04/11/23 10:10	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/11/23 10:10	1

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: MB 460-902397/9
Matrix: Water
Analysis Batch: 902397

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/11/23 10:10	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/11/23 10:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/11/23 10:10	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/11/23 10:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/11/23 10:10	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/11/23 10:10	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			04/11/23 10:10	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			04/11/23 10:10	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			04/11/23 10:10	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			04/11/23 10:10	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/11/23 10:10	1
Toluene	1.0	U	1.0	0.38	ug/L			04/11/23 10:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/11/23 10:10	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/11/23 10:10	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/11/23 10:10	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/11/23 10:10	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		70 - 128		04/11/23 10:10	1
4-Bromofluorobenzene	100		76 - 120		04/11/23 10:10	1
Dibromofluoromethane (Surr)	98		77 - 124		04/11/23 10:10	1
Toluene-d8 (Surr)	95		80 - 120		04/11/23 10:10	1

Lab Sample ID: LCS 460-902397/4
Matrix: Water
Analysis Batch: 902397

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.6		ug/L		113	73 - 130
1,1-Dichloroethene	20.0	20.0		ug/L		100	68 - 133
1,2,4-Trimethylbenzene	20.0	21.5		ug/L		108	75 - 125
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120
1,2-Dichloroethane	20.0	18.9		ug/L		95	66 - 129
1,3,5-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 125
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	80 - 120
1,4-Dioxane	400	494		ug/L		124	62 - 142
2-Butanone (MEK)	100	80.3		ug/L		80	61 - 128
Acetone	100	91.8		ug/L		92	61 - 134
Benzene	20.0	21.8		ug/L		109	71 - 126
Carbon tetrachloride	20.0	18.2		ug/L		91	61 - 131
Chlorobenzene	20.0	20.7		ug/L		104	80 - 120
Chloroform	20.0	19.9		ug/L		100	78 - 125
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	78 - 121
Ethylbenzene	20.0	21.5		ug/L		107	78 - 120
Methyl tert-butyl ether	20.0	20.9		ug/L		105	72 - 131
Methylene Chloride	20.0	22.1		ug/L		110	74 - 127

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: LCS 460-902397/4
Matrix: Water
Analysis Batch: 902397

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	20.0	20.8		ug/L		104	78 - 120
n-Butylbenzene	20.0	22.3		ug/L		111	69 - 135
N-Propylbenzene	20.0	22.6		ug/L		113	68 - 129
o-Xylene	20.0	21.4		ug/L		107	78 - 120
sec-Butylbenzene	20.0	22.0		ug/L		110	73 - 129
tert-Butylbenzene	20.0	20.6		ug/L		103	72 - 124
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 127
Toluene	20.0	20.0		ug/L		100	78 - 120
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	74 - 126
Trichloroethene	20.0	20.1		ug/L		100	71 - 121
Vinyl chloride	20.0	24.4		ug/L		122	55 - 144
Xylenes, Total	40.0	42.3		ug/L		106	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 128
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	95		77 - 124
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 460-902397/5
Matrix: Water
Analysis Batch: 902397

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	68 - 128	3	30
1,1-Dichloroethane	20.0	22.7		ug/L		114	73 - 130	0	30
1,1-Dichloroethene	20.0	19.7		ug/L		99	68 - 133	1	30
1,2,4-Trimethylbenzene	20.0	22.4		ug/L		112	75 - 125	4	30
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120	0	30
1,2-Dichloroethane	20.0	19.0		ug/L		95	66 - 129	1	30
1,3,5-Trimethylbenzene	20.0	21.8		ug/L		109	75 - 125	1	30
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120	4	30
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 120	2	30
1,4-Dioxane	400	448		ug/L		112	62 - 142	10	30
2-Butanone (MEK)	100	84.4		ug/L		84	61 - 128	5	30
Acetone	100	92.8		ug/L		93	61 - 134	1	30
Benzene	20.0	22.5		ug/L		112	71 - 126	3	30
Carbon tetrachloride	20.0	18.8		ug/L		94	61 - 131	3	30
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120	0	30
Chloroform	20.0	19.9		ug/L		99	78 - 125	0	30
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	78 - 121	5	30
Ethylbenzene	20.0	22.0		ug/L		110	78 - 120	3	30
Methyl tert-butyl ether	20.0	20.6		ug/L		103	72 - 131	2	30
Methylene Chloride	20.0	21.5		ug/L		107	74 - 127	3	30
m-Xylene & p-Xylene	20.0	21.2		ug/L		106	78 - 120	2	30
n-Butylbenzene	20.0	22.8		ug/L		114	69 - 135	2	30
N-Propylbenzene	20.0	22.9		ug/L		114	68 - 129	1	30
o-Xylene	20.0	21.5		ug/L		107	78 - 120	0	30

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: LCSD 460-902397/5
Matrix: Water
Analysis Batch: 902397

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	22.7		ug/L		113	73 - 129	3	30
tert-Butylbenzene	20.0	21.4		ug/L		107	72 - 124	4	30
Tetrachloroethene	20.0	20.9		ug/L		104	70 - 127	4	30
Toluene	20.0	20.8		ug/L		104	78 - 120	4	30
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	74 - 126	7	30
Trichloroethene	20.0	19.0		ug/L		95	71 - 121	6	30
Vinyl chloride	20.0	22.9		ug/L		115	55 - 144	6	30
Xylenes, Total	40.0	42.7		ug/L		107	78 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 128
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	90		77 - 124
Toluene-d8 (Surr)	101		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-902159/1-A
Matrix: Water
Analysis Batch: 902197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 902159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		04/09/23 08:04	04/09/23 15:57	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		04/09/23 08:04	04/09/23 15:57	1
Acenaphthene	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 15:57	1
Acenaphthylene	10	U	10	0.82	ug/L		04/09/23 08:04	04/09/23 15:57	1
Anthracene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 15:57	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		04/09/23 08:04	04/09/23 15:57	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		04/09/23 08:04	04/09/23 15:57	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		04/09/23 08:04	04/09/23 15:57	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		04/09/23 08:04	04/09/23 15:57	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		04/09/23 08:04	04/09/23 15:57	1
Chrysene	2.0	U	2.0	0.91	ug/L		04/09/23 08:04	04/09/23 15:57	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		04/09/23 08:04	04/09/23 15:57	1
Dibenzofuran	10	U	10	1.1	ug/L		04/09/23 08:04	04/09/23 15:57	1
Fluoranthene	10	U	10	0.84	ug/L		04/09/23 08:04	04/09/23 15:57	1
Fluorene	10	U	10	0.91	ug/L		04/09/23 08:04	04/09/23 15:57	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		04/09/23 08:04	04/09/23 15:57	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		04/09/23 08:04	04/09/23 15:57	1
Naphthalene	2.0	U	2.0	0.54	ug/L		04/09/23 08:04	04/09/23 15:57	1
Pentachlorophenol	20	U	20	1.4	ug/L		04/09/23 08:04	04/09/23 15:57	1
Phenanthrene	10	U	10	1.3	ug/L		04/09/23 08:04	04/09/23 15:57	1
Phenol	10	U	10	0.29	ug/L		04/09/23 08:04	04/09/23 15:57	1
Pyrene	10	U	10	1.6	ug/L		04/09/23 08:04	04/09/23 15:57	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		37 - 150	04/09/23 08:04	04/09/23 15:57	1
2-Fluorobiphenyl	99		46 - 139	04/09/23 08:04	04/09/23 15:57	1

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-902159/1-A
Matrix: Water
Analysis Batch: 902197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 902159

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	45		19 - 80	04/09/23 08:04	04/09/23 15:57	1
Nitrobenzene-d5 (Surr)	102		52 - 137	04/09/23 08:04	04/09/23 15:57	1
Phenol-d5 (Surr)	30		10 - 56	04/09/23 08:04	04/09/23 15:57	1
Terphenyl-d14 (Surr)	65		22 - 150	04/09/23 08:04	04/09/23 15:57	1

Lab Sample ID: LCS 460-902159/2-A
Matrix: Water
Analysis Batch: 902197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 902159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3 & 4 Methylphenol	80.0	44.3		ug/L		55	35 - 120
Acenaphthene	80.0	72.4		ug/L		91	49 - 120
Acenaphthylene	80.0	68.3		ug/L		85	60 - 120
Anthracene	80.0	70.0		ug/L		87	65 - 120
Benzo[a]anthracene	80.0	73.4		ug/L		92	63 - 120
Benzo[a]pyrene	80.0	66.9		ug/L		84	60 - 139
Benzo[b]fluoranthene	80.0	73.3		ug/L		92	66 - 125
Benzo[g,h,i]perylene	80.0	63.2		ug/L		79	59 - 136
Benzo[k]fluoranthene	80.0	76.4		ug/L		95	64 - 125
Chrysene	80.0	67.0		ug/L		84	63 - 120
Dibenz(a,h)anthracene	80.0	73.0		ug/L		91	62 - 140
Dibenzofuran	80.0	72.0		ug/L		90	58 - 120
Fluoranthene	80.0	74.6		ug/L		93	65 - 123
Fluorene	80.0	74.2		ug/L		93	58 - 120
Hexachlorobenzene	80.0	70.4		ug/L		88	61 - 128
Indeno[1,2,3-cd]pyrene	80.0	73.6		ug/L		92	59 - 137
Naphthalene	80.0	67.5		ug/L		84	51 - 120
Pentachlorophenol	160	149		ug/L		93	24 - 131
Phenanthrene	80.0	69.5		ug/L		87	65 - 120
Phenol	80.0	21.2		ug/L		27	18 - 120
Pyrene	80.0	69.1		ug/L		86	51 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	103		37 - 150
2-Fluorobiphenyl	88		46 - 139
2-Fluorophenol (Surr)	39		19 - 80
Nitrobenzene-d5 (Surr)	86		52 - 137
Phenol-d5 (Surr)	27		10 - 56
Terphenyl-d14 (Surr)	69		22 - 150

Lab Sample ID: LCSD 460-902159/3-A
Matrix: Water
Analysis Batch: 902197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 902159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
2-Methylphenol	80.0	47.5		ug/L		59	44 - 120	0	30
3 & 4 Methylphenol	80.0	44.5		ug/L		56	35 - 120	0	30

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-902159/3-A
Matrix: Water
Analysis Batch: 902197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 902159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Acenaphthene	80.0	72.7		ug/L		91	49 - 120	0	30	
Acenaphthylene	80.0	69.0		ug/L		86	60 - 120	1	30	
Anthracene	80.0	70.2		ug/L		88	65 - 120	0	30	
Benzo[a]anthracene	80.0	72.4		ug/L		91	63 - 120	1	30	
Benzo[a]pyrene	80.0	68.0		ug/L		85	60 - 139	2	30	
Benzo[b]fluoranthene	80.0	73.4		ug/L		92	66 - 125	0	30	
Benzo[g,h,i]perylene	80.0	65.6		ug/L		82	59 - 136	4	30	
Benzo[k]fluoranthene	80.0	77.5		ug/L		97	64 - 125	1	30	
Chrysene	80.0	66.0		ug/L		83	63 - 120	1	30	
Dibenz(a,h)anthracene	80.0	75.3		ug/L		94	62 - 140	3	30	
Dibenzofuran	80.0	72.7		ug/L		91	58 - 120	1	30	
Fluoranthene	80.0	77.4		ug/L		97	65 - 123	4	30	
Fluorene	80.0	75.1		ug/L		94	58 - 120	1	30	
Hexachlorobenzene	80.0	69.4		ug/L		87	61 - 128	2	30	
Indeno[1,2,3-cd]pyrene	80.0	76.4		ug/L		96	59 - 137	4	30	
Naphthalene	80.0	67.3		ug/L		84	51 - 120	0	30	
Pentachlorophenol	160	153		ug/L		96	24 - 131	3	30	
Phenanthrene	80.0	69.8		ug/L		87	65 - 120	0	30	
Phenol	80.0	21.3		ug/L		27	18 - 120	0	30	
Pyrene	80.0	66.9		ug/L		84	51 - 124	3	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	103		37 - 150
2-Fluorobiphenyl	89		46 - 139
2-Fluorophenol (Surr)	40		19 - 80
Nitrobenzene-d5 (Surr)	87		52 - 137
Phenol-d5 (Surr)	27		10 - 56
Terphenyl-d14 (Surr)	66		22 - 150

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-902160/1-A
Matrix: Water
Analysis Batch: 902231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 902160

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 09:57	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 09:57	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Aldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
Aldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		04/09/23 08:14	04/10/23 09:57	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		04/09/23 08:14	04/10/23 09:57	1
beta-BHC	0.020	U	0.020	0.015	ug/L		04/09/23 08:14	04/10/23 09:57	1
beta-BHC	0.020	U	0.020	0.015	ug/L		04/09/23 08:14	04/10/23 09:57	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		04/09/23 08:14	04/10/23 09:57	1

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-902160/1-A
Matrix: Water
Analysis Batch: 902231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 902160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		04/09/23 08:14	04/10/23 09:57	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 09:57	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 09:57	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 09:57	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		04/09/23 08:14	04/10/23 09:57	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		04/09/23 08:14	04/10/23 09:57	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		04/09/23 08:14	04/10/23 09:57	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		04/09/23 08:14	04/10/23 09:57	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 09:57	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		04/09/23 08:14	04/10/23 09:57	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		04/09/23 08:14	04/10/23 09:57	1
Toxaphene	0.50	U	0.50	0.11	ug/L		04/09/23 08:14	04/10/23 09:57	1
Toxaphene	0.50	U	0.50	0.11	ug/L		04/09/23 08:14	04/10/23 09:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		15 - 121	04/09/23 08:14	04/10/23 09:57	1
DCB Decachlorobiphenyl	95		15 - 121	04/09/23 08:14	04/10/23 09:57	1
Tetrachloro-m-xylene	96		17 - 120	04/09/23 08:14	04/10/23 09:57	1
Tetrachloro-m-xylene	92		17 - 120	04/09/23 08:14	04/10/23 09:57	1

Lab Sample ID: LCS 460-902160/2-A
Matrix: Water
Analysis Batch: 902231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 902160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.800	0.710		ug/L		89	59 - 125
4,4'-DDD	0.800	0.770		ug/L		96	59 - 125
4,4'-DDE	0.800	0.719		ug/L		90	60 - 128
4,4'-DDE	0.800	0.739		ug/L		92	60 - 128
4,4'-DDT	0.800	0.824		ug/L		103	42 - 136
4,4'-DDT	0.800	0.781		ug/L		98	42 - 136
Aldrin	0.800	0.742		ug/L		93	58 - 125

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-902160/2-A
Matrix: Water
Analysis Batch: 902231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 902160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.800	0.738		ug/L		92	58 - 125
alpha-BHC	0.800	0.756		ug/L		94	65 - 122
alpha-BHC	0.800	0.746		ug/L		93	65 - 122
beta-BHC	0.800	0.729		ug/L		91	66 - 128
beta-BHC	0.800	0.751		ug/L		94	66 - 128
cis-Chlordane	0.800	0.731		ug/L		91	57 - 123
cis-Chlordane	0.800	0.737		ug/L		92	57 - 123
delta-BHC	0.800	0.604		ug/L		75	38 - 125
delta-BHC	0.800	0.602		ug/L		75	38 - 125
Dieldrin	0.800	0.728		ug/L		91	57 - 133
Dieldrin	0.800	0.735		ug/L		92	57 - 133
Endosulfan I	0.800	0.727		ug/L		91	56 - 124
Endosulfan I	0.800	0.755		ug/L		94	56 - 124
Endosulfan II	0.800	0.714		ug/L		89	56 - 134
Endosulfan II	0.800	0.738		ug/L		92	56 - 134
Endosulfan sulfate	0.800	0.725		ug/L		91	54 - 124
Endosulfan sulfate	0.800	0.728		ug/L		91	54 - 124
Endrin	0.800	0.699		ug/L		87	57 - 135
Endrin	0.800	0.722		ug/L		90	57 - 135
Endrin aldehyde	0.800	0.810		ug/L		101	54 - 122
Endrin aldehyde	0.800	0.807		ug/L		101	54 - 122
Endrin ketone	0.800	0.781		ug/L		98	51 - 132
Endrin ketone	0.800	0.782		ug/L		98	51 - 132
gamma-BHC (Lindane)	0.800	0.784		ug/L		98	65 - 123
gamma-BHC (Lindane)	0.800	0.767		ug/L		96	65 - 123
Heptachlor	0.800	0.796		ug/L		99	59 - 120
Heptachlor	0.800	0.782		ug/L		98	59 - 120
Heptachlor epoxide	0.800	0.747		ug/L		93	59 - 128
Heptachlor epoxide	0.800	0.739		ug/L		92	59 - 128
Methoxychlor	0.800	0.851		ug/L		106	35 - 138
Methoxychlor	0.800	0.800		ug/L		100	35 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	86		15 - 121
DCB Decachlorobiphenyl	87		15 - 121
Tetrachloro-m-xylene	88		17 - 120
Tetrachloro-m-xylene	91		17 - 120

Lab Sample ID: LCSD 460-902160/3-A
Matrix: Water
Analysis Batch: 902231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 902160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.800	0.710		ug/L		89	59 - 125	0	30
4,4'-DDD	0.800	0.771		ug/L		96	59 - 125	0	30
4,4'-DDE	0.800	0.715		ug/L		89	60 - 128	1	30
4,4'-DDE	0.800	0.721		ug/L		90	60 - 128	2	30
4,4'-DDT	0.800	0.813		ug/L		102	42 - 136	1	30

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QC Sample Results

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-902160/3-A
 Matrix: Water
 Analysis Batch: 902231

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 902160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDT	0.800	0.776		ug/L		97	42 - 136	1	30
Aldrin	0.800	0.748		ug/L		93	58 - 125	1	30
Aldrin	0.800	0.728		ug/L		91	58 - 125	1	30
alpha-BHC	0.800	0.762		ug/L		95	65 - 122	1	30
alpha-BHC	0.800	0.742		ug/L		93	65 - 122	0	30
beta-BHC	0.800	0.735		ug/L		92	66 - 128	1	30
beta-BHC	0.800	0.740		ug/L		92	66 - 128	1	30
cis-Chlordane	0.800	0.737		ug/L		92	57 - 123	1	30
cis-Chlordane	0.800	0.721		ug/L		90	57 - 123	2	30
delta-BHC	0.800	0.604		ug/L		76	38 - 125	0	30
delta-BHC	0.800	0.593		ug/L		74	38 - 125	2	30
Dieldrin	0.800	0.726		ug/L		91	57 - 133	0	30
Dieldrin	0.800	0.728		ug/L		91	57 - 133	1	30
Endosulfan I	0.800	0.731		ug/L		91	56 - 124	1	30
Endosulfan I	0.800	0.746		ug/L		93	56 - 124	1	30
Endosulfan II	0.800	0.718		ug/L		90	56 - 134	1	30
Endosulfan II	0.800	0.744		ug/L		93	56 - 134	1	30
Endosulfan sulfate	0.800	0.733		ug/L		92	54 - 124	1	30
Endosulfan sulfate	0.800	0.726		ug/L		91	54 - 124	0	30
Endrin	0.800	0.699		ug/L		87	57 - 135	0	30
Endrin	0.800	0.708		ug/L		88	57 - 135	2	30
Endrin aldehyde	0.800	0.801		ug/L		100	54 - 122	1	30
Endrin aldehyde	0.800	0.803		ug/L		100	54 - 122	1	30
Endrin ketone	0.800	0.794		ug/L		99	51 - 132	2	30
Endrin ketone	0.800	0.783		ug/L		98	51 - 132	0	30
gamma-BHC (Lindane)	0.800	0.787		ug/L		98	65 - 123	0	30
gamma-BHC (Lindane)	0.800	0.757		ug/L		95	65 - 123	1	30
Heptachlor	0.800	0.800		ug/L		100	59 - 120	1	30
Heptachlor	0.800	0.773		ug/L		97	59 - 120	1	30
Heptachlor epoxide	0.800	0.751		ug/L		94	59 - 128	1	30
Heptachlor epoxide	0.800	0.726		ug/L		91	59 - 128	2	30
Methoxychlor	0.800	0.856		ug/L		107	35 - 138	1	30
Methoxychlor	0.800	0.776		ug/L		97	35 - 138	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
DCB Decachlorobiphenyl	87		15 - 121
DCB Decachlorobiphenyl	88		15 - 121
Tetrachloro-m-xylene	87		17 - 120
Tetrachloro-m-xylene	90		17 - 120

Lab Sample ID: 480-207480-E-1-A MSD
 Matrix: Water
 Analysis Batch: 902231

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 902160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.020	U	0.800	0.722		ug/L		90	59 - 125	2	30
4,4'-DDD	0.020	U	0.800	0.765		ug/L		96	59 - 125	3	30
4,4'-DDE	0.020	U	0.800	0.724		ug/L		91	60 - 128	3	30

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-207480-E-1-A MSD

Matrix: Water

Analysis Batch: 902231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 902160

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
4,4'-DDE	0.020	U	0.800	0.719		ug/L		90	60 - 128	5	30
4,4'-DDT	0.020	U	0.800	0.865		ug/L		108	42 - 136	1	30
4,4'-DDT	0.020	U	0.800	0.823		ug/L		103	42 - 136	4	30
Aldrin	0.020	U	0.800	0.745		ug/L		93	58 - 125	0	30
Aldrin	0.020	U	0.800	0.714		ug/L		89	58 - 125	5	30
alpha-BHC	0.020	U	0.800	0.763		ug/L		95	65 - 122	1	30
alpha-BHC	0.020	U	0.800	0.729		ug/L		91	65 - 122	5	30
beta-BHC	0.020	U	0.800	0.751		ug/L		94	66 - 128	2	30
beta-BHC	0.020	U	0.800	0.741		ug/L		93	66 - 128	3	30
cis-Chlordane	0.020	U	0.800	0.752		ug/L		94	57 - 123	1	30
cis-Chlordane	0.020	U	0.800	0.725		ug/L		91	57 - 123	5	30
delta-BHC	0.020	U	0.800	0.614		ug/L		77	38 - 125	1	30
delta-BHC	0.020	U	0.800	0.592		ug/L		74	38 - 125	4	30
Dieldrin	0.020	U	0.800	0.742		ug/L		93	57 - 133	3	30
Dieldrin	0.020	U	0.800	0.730		ug/L		91	57 - 133	5	30
Endosulfan I	0.020	U	0.800	0.742		ug/L		93	56 - 124	1	30
Endosulfan I	0.020	U	0.800	0.743		ug/L		93	56 - 124	5	30
Endosulfan II	0.020	U	0.800	0.738		ug/L		92	56 - 134	3	30
Endosulfan II	0.020	U	0.800	0.740		ug/L		93	56 - 134	5	30
Endosulfan sulfate	0.020	U	0.800	0.747		ug/L		93	54 - 124	1	30
Endosulfan sulfate	0.020	U	0.800	0.727		ug/L		91	54 - 124	5	30
Endrin	0.020	U	0.800	0.739		ug/L		92	57 - 135	3	30
Endrin	0.020	U	0.800	0.741		ug/L		93	57 - 135	5	30
Endrin aldehyde	0.020	U	0.800	0.785		ug/L		98	54 - 122	3	30
Endrin aldehyde	0.020	U	0.800	0.772		ug/L		97	54 - 122	6	30
Endrin ketone	0.020	U	0.800	0.812		ug/L		101	51 - 132	2	30
Endrin ketone	0.020	U	0.800	0.781		ug/L		98	51 - 132	4	30
gamma-BHC (Lindane)	0.020	U	0.800	0.792		ug/L		99	65 - 123	1	30
gamma-BHC (Lindane)	0.020	U	0.800	0.748		ug/L		94	65 - 123	4	30
Heptachlor	0.020	U	0.800	0.807		ug/L		101	59 - 120	0	30
Heptachlor	0.020	U	0.800	0.769		ug/L		96	59 - 120	5	30
Heptachlor epoxide	0.020	U	0.800	0.761		ug/L		95	59 - 128	1	30
Heptachlor epoxide	0.020	U	0.800	0.728		ug/L		91	59 - 128	5	30
Methoxychlor	0.020	U	0.800	0.937		ug/L		117	35 - 138	2	30
Methoxychlor	0.020	U	0.800	0.854		ug/L		107	35 - 138	5	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
DCB Decachlorobiphenyl	89		15 - 121
DCB Decachlorobiphenyl	88		15 - 121
Tetrachloro-m-xylene	85		17 - 120
Tetrachloro-m-xylene	85		17 - 120

Lab Sample ID: 480-207480-F-1-A MS

Matrix: Water

Analysis Batch: 902231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 902160

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limit
	Result	Qualifier		Result	Qualifier				Limits	
4,4'-DDD	0.020	U	0.800	0.734		ug/L		92	59 - 125	

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-364938/1-A
Matrix: Water
Analysis Batch: 365206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364938

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	0.010	U	0.010	0.0080	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1221	0.010	U	0.010	0.0080	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1232	0.010	U	0.010	0.0080	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1242	0.010	U	0.010	0.0080	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1248	0.010	U	0.010	0.0080	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1254	0.010	U	0.010	0.0050	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1260	0.010	U	0.010	0.0050	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1262	0.010	U	0.010	0.0050	ug/L		04/17/23 10:02	04/17/23 17:04	1
Aroclor 1268	0.010	U	0.010	0.0050	ug/L		04/17/23 10:02	04/17/23 17:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	89		46 - 161	04/17/23 10:02	04/17/23 17:04	1
DCB Decachlorobiphenyl (Surr)	95		46 - 161	04/17/23 10:02	04/17/23 17:04	1
Tetrachloro-m-xylene	41		41 - 146	04/17/23 10:02	04/17/23 17:04	1
Tetrachloro-m-xylene	43		41 - 146	04/17/23 10:02	04/17/23 17:04	1

Lab Sample ID: LCS 410-364938/2-A
Matrix: Water
Analysis Batch: 365206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364938

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor 1016	0.501	0.257	*	ug/L		51	60 - 117
Aroclor 1260	0.502	0.335	*	ug/L		67	81 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	101		46 - 161
DCB Decachlorobiphenyl (Surr)	105		46 - 161
Tetrachloro-m-xylene	42		41 - 146
Tetrachloro-m-xylene	44		41 - 146

Lab Sample ID: 410-121855-C-1-A MS
Matrix: Water
Analysis Batch: 365206

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 364938

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	79		46 - 161
DCB Decachlorobiphenyl (Surr)	84		46 - 161
Tetrachloro-m-xylene	52		41 - 146
Tetrachloro-m-xylene	52		41 - 146

Lab Sample ID: 410-121855-C-1-B MSD
Matrix: Water
Analysis Batch: 365206

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 364938

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	83		46 - 161
DCB Decachlorobiphenyl (Surr)	87		46 - 161

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 410-121855-C-1-B MSD
Matrix: Water
Analysis Batch: 365206

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 364938

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	56		41 - 146
Tetrachloro-m-xylene	56		41 - 146

Lab Sample ID: MB 410-365875/1-A
Matrix: Water
Analysis Batch: 366276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365875

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	0.010	U	0.010	0.0080	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1221	0.010	U	0.010	0.0080	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1232	0.010	U	0.010	0.0080	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1242	0.010	U	0.010	0.0080	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1248	0.010	U	0.010	0.0080	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1254	0.010	U	0.010	0.0050	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1260	0.010	U	0.010	0.0050	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1262	0.010	U	0.010	0.0050	ug/L		04/19/23 09:30	04/19/23 18:01	1
Aroclor 1268	0.010	U	0.010	0.0050	ug/L		04/19/23 09:30	04/19/23 18:01	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	123		46 - 161	04/19/23 09:30	04/19/23 18:01	1
DCB Decachlorobiphenyl (Surr)	123		46 - 161	04/19/23 09:30	04/19/23 18:01	1
Tetrachloro-m-xylene	56		41 - 146	04/19/23 09:30	04/19/23 18:01	1
Tetrachloro-m-xylene	58		41 - 146	04/19/23 09:30	04/19/23 18:01	1

Lab Sample ID: LCS 410-365875/2-A
Matrix: Water
Analysis Batch: 366276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365875

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor 1016	0.501	0.408		ug/L		81	60 - 117
Aroclor 1260	0.502	0.441		ug/L		88	81 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	130		46 - 161
DCB Decachlorobiphenyl (Surr)	134		46 - 161
Tetrachloro-m-xylene	61		41 - 146
Tetrachloro-m-xylene	62		41 - 146

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) - RA

Lab Sample ID: 410-121855-D-1-A MS
Matrix: Water
Analysis Batch: 366276

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 365875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor 1016 - RA	0.010	U	0.489	0.409		ug/L		84	60 - 117
Aroclor 1260 - RA	0.010	U	0.489	0.414		ug/L		85	81 - 130

QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) - RA (Continued)

Lab Sample ID: 410-121855-D-1-A MS
Matrix: Water
Analysis Batch: 366276

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 365875

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr) - RA	94		46 - 161
DCB Decachlorobiphenyl (Surr) - RA	101		46 - 161
Tetrachloro-m-xylene - RA	65		41 - 146
Tetrachloro-m-xylene - RA	65		41 - 146

Lab Sample ID: 410-121855-D-1-B MSD
Matrix: Water
Analysis Batch: 366276

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 365875

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Aroclor 1016 - RA	0.010	U	0.483	0.413		ug/L		85	60 - 117	1	30	
Aroclor 1260 - RA	0.010	U	0.484	0.424		ug/L		88	81 - 130	2	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr) - RA	99		46 - 161
DCB Decachlorobiphenyl (Surr) - RA	104		46 - 161
Tetrachloro-m-xylene - RA	66		41 - 146
Tetrachloro-m-xylene - RA	68		41 - 146

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-902221/1-A
Matrix: Water
Analysis Batch: 902495

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	2.0	U	2.0	1.2	ug/L		04/09/23 17:55	04/11/23 12:28	1
Barium	4.0	U	4.0	0.93	ug/L		04/09/23 17:55	04/11/23 12:28	1
Beryllium	0.80	U	0.80	0.12	ug/L		04/09/23 17:55	04/11/23 12:28	1
Cadmium	2.0	U	2.0	0.38	ug/L		04/09/23 17:55	04/11/23 12:28	1
Chromium	4.0	U	4.0	1.7	ug/L		04/09/23 17:55	04/11/23 12:28	1
Copper	4.0	U	4.0	0.51	ug/L		04/09/23 17:55	04/11/23 12:28	1
Lead	1.2	U	1.2	0.30	ug/L		04/09/23 17:55	04/11/23 12:28	1
Manganese	8.0	U	8.0	0.60	ug/L		04/09/23 17:55	04/11/23 12:28	1
Nickel	4.0	U	4.0	1.4	ug/L		04/09/23 17:55	04/11/23 12:28	1
Selenium	2.5	U	2.5	0.34	ug/L		04/09/23 17:55	04/11/23 12:28	1
Silver	2.0	U	2.0	1.3	ug/L		04/09/23 17:55	04/11/23 12:28	1
Zinc	3.06	J	16.0	2.2	ug/L		04/09/23 17:55	04/11/23 12:28	1

Lab Sample ID: LCS 460-902221/2-A
Matrix: Water
Analysis Batch: 902495

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec	
		Added	Result				Qualifier	Limits
Arsenic	50.0	49.78		ug/L		100	80 - 120	
Barium	50.0	49.48		ug/L		99	80 - 120	

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: LCS 460-902221/2-A
Matrix: Water
Analysis Batch: 902495

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	25.0	24.18		ug/L		97	80 - 120
Cadmium	25.0	25.35		ug/L		101	80 - 120
Chromium	50.0	50.01		ug/L		100	80 - 120
Copper	50.0	52.23		ug/L		104	80 - 120
Lead	25.0	23.90		ug/L		96	80 - 120
Manganese	250	253.9		ug/L		102	80 - 120
Nickel	50.0	53.15		ug/L		106	80 - 120
Selenium	50.0	48.78		ug/L		98	80 - 120
Silver	25.0	24.52		ug/L		98	80 - 120
Zinc	250	252.2		ug/L		101	80 - 120

Lab Sample ID: 460-277930-2 MS
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.0	U	50.0	50.09		ug/L		100	75 - 125
Barium	1050		50.0	1122	4	ug/L		141	75 - 125
Beryllium	0.80	U	25.0	23.35		ug/L		93	75 - 125
Cadmium	1.7	J	25.0	26.58		ug/L		100	75 - 125
Chromium	4.0	U	50.0	48.67		ug/L		97	75 - 125
Copper	4.2		50.0	51.40		ug/L		94	75 - 125
Lead	1.2	U	25.0	24.26		ug/L		97	75 - 125
Nickel	17.9		50.0	64.21		ug/L		93	75 - 125
Selenium	2.5	U	50.0	48.79		ug/L		98	75 - 125
Silver	2.0	U	25.0	22.92		ug/L		92	75 - 125
Zinc	15.9	J B	250	255.6		ug/L		96	75 - 125

Lab Sample ID: 460-277930-2 MS
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	47400		250	48750	4	ug/L		526	75 - 125

Lab Sample ID: 460-277930-2 MSD
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	2.0	U	50.0	50.45		ug/L		101	75 - 125	1	20
Barium	1050		50.0	1127	4	ug/L		150	75 - 125	0	20
Beryllium	0.80	U	25.0	24.02		ug/L		96	75 - 125	3	20
Cadmium	1.7	J	25.0	26.38		ug/L		99	75 - 125	1	20
Chromium	4.0	U	50.0	49.33		ug/L		99	75 - 125	1	20
Copper	4.2		50.0	53.70		ug/L		99	75 - 125	4	20
Lead	1.2	U	25.0	24.68		ug/L		99	75 - 125	2	20
Nickel	17.9		50.0	65.04		ug/L		94	75 - 125	1	20
Selenium	2.5	U	50.0	51.19		ug/L		102	75 - 125	5	20

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QC Sample Results

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: 460-277930-2 MSD
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Silver	2.0	U	25.0	23.38		ug/L		94	75 - 125	2	20
Zinc	15.9	J B	250	258.6		ug/L		97	75 - 125	1	20

Lab Sample ID: 460-277930-2 MSD
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Manganese	47400		250	48690	4	ug/L		501	75 - 125	0	20

Lab Sample ID: 460-277930-2 DU
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	1050		1040		ug/L		1	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	1.7	J	1.75	J	ug/L		6	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Copper	4.2		3.83	J	ug/L		9	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Nickel	17.9		15.94		ug/L		12	20
Selenium	2.5	U	2.5	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Zinc	15.9	J B	13.97	J	ug/L		13	20

Lab Sample ID: 460-277930-2 DU
Matrix: Water
Analysis Batch: 902495

Client Sample ID: OU3-MW2_20230404
Prep Type: Total Recoverable
Prep Batch: 902221

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Manganese	47400		46880		ug/L		1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-902328/1-A
Matrix: Water
Analysis Batch: 902348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 902328

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.20	U	0.20	0.091	ug/L		04/10/23 14:03	04/10/23 14:58	1

Lab Sample ID: LCS 460-902328/2-A
Matrix: Water
Analysis Batch: 902348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 902328

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Result
Mercury	1.00	1.03		ug/L		103	80 - 120

QC Sample Results

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

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

Lab Sample ID: 460-277930-2 MS
Matrix: Water
Analysis Batch: 902348

Client Sample ID: OU3-MW2_20230404
Prep Type: Total/NA
Prep Batch: 902328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.02		ug/L		102	75 - 125

Lab Sample ID: 460-277930-2 MSD
Matrix: Water
Analysis Batch: 902348

Client Sample ID: OU3-MW2_20230404
Prep Type: Total/NA
Prep Batch: 902328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.998		ug/L		100	75 - 125	2	20

Lab Sample ID: 460-277930-2 DU
Matrix: Water
Analysis Batch: 902348

Client Sample ID: OU3-MW2_20230404
Prep Type: Total/NA
Prep Batch: 902328

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

QC Association Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

GC/MS VOA

Analysis Batch: 902213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	8260D	
460-277930-3	FB_20230404	Total/NA	Water	8260D	
460-277930-4	OUX-MWX_20230404	Total/NA	Water	8260D	
MB 460-902213/9	Method Blank	Total/NA	Water	8260D	
LCS 460-902213/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-902213/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 902397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-5	TB_20230404	Total/NA	Water	8260D	
MB 460-902397/9	Method Blank	Total/NA	Water	8260D	
LCS 460-902397/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-902397/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 902159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	3510C	
460-277930-3	FB_20230404	Total/NA	Water	3510C	
460-277930-4	OUX-MWX_20230404	Total/NA	Water	3510C	
MB 460-902159/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-902159/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-902159/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 902197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	8270E	902159
460-277930-3	FB_20230404	Total/NA	Water	8270E	902159
460-277930-4	OUX-MWX_20230404	Total/NA	Water	8270E	902159
MB 460-902159/1-A	Method Blank	Total/NA	Water	8270E	902159
LCS 460-902159/2-A	Lab Control Sample	Total/NA	Water	8270E	902159
LCSD 460-902159/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	902159

GC Semi VOA

Prep Batch: 364938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-3	FB_20230404	Total/NA	Water	3510C	
MB 410-364938/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-364938/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-121855-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
410-121855-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 365206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-3	FB_20230404	Total/NA	Water	8082A	364938
MB 410-364938/1-A	Method Blank	Total/NA	Water	8082A	364938
LCS 410-364938/2-A	Lab Control Sample	Total/NA	Water	8082A	364938
410-121855-C-1-A MS	Matrix Spike	Total/NA	Water	8082A	364938
410-121855-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	364938

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QC Association Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

GC Semi VOA

Prep Batch: 365875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	3510C	
460-277930-3 - RA	FB_20230404	Total/NA	Water	3510C	
460-277930-4	OUX-MWX_20230404	Total/NA	Water	3510C	
MB 410-365875/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-365875/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-121855-D-1-A MS - RA	Matrix Spike	Total/NA	Water	3510C	
410-121855-D-1-B MSD - RA	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 366276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	8082A	365875
460-277930-3 - RA	FB_20230404	Total/NA	Water	8082A	365875
460-277930-4	OUX-MWX_20230404	Total/NA	Water	8082A	365875
MB 410-365875/1-A	Method Blank	Total/NA	Water	8082A	365875
LCS 410-365875/2-A	Lab Control Sample	Total/NA	Water	8082A	365875
410-121855-D-1-A MS - RA	Matrix Spike	Total/NA	Water	8082A	365875
410-121855-D-1-B MSD - RA	Matrix Spike Duplicate	Total/NA	Water	8082A	365875

Prep Batch: 902160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	3510C	
460-277930-3	FB_20230404	Total/NA	Water	3510C	
460-277930-4	OUX-MWX_20230404	Total/NA	Water	3510C	
MB 460-902160/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-902160/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-902160/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
480-207480-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
480-207480-F-1-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 902231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	8081B	902160
460-277930-3	FB_20230404	Total/NA	Water	8081B	902160
460-277930-4	OUX-MWX_20230404	Total/NA	Water	8081B	902160
MB 460-902160/1-A	Method Blank	Total/NA	Water	8081B	902160
LCS 460-902160/2-A	Lab Control Sample	Total/NA	Water	8081B	902160
LCSD 460-902160/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	902160
480-207480-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	902160
480-207480-F-1-A MS	Matrix Spike	Total/NA	Water	8081B	902160

Metals

Prep Batch: 902221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total Recoverable	Water	3005A	
460-277930-2	OU3-MW2_20230404	Total Recoverable	Water	3005A	
460-277930-3	FB_20230404	Total Recoverable	Water	3005A	
460-277930-4	OUX-MWX_20230404	Total Recoverable	Water	3005A	
MB 460-902221/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 460-902221/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
460-277930-2 MS	OU3-MW2_20230404	Total Recoverable	Water	3005A	

Eurofins Edison

QC Association Summary

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Metals (Continued)

Prep Batch: 902221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-2 MSD	OU3-MW2_20230404	Total Recoverable	Water	3005A	
460-277930-2 DU	OU3-MW2_20230404	Total Recoverable	Water	3005A	

Prep Batch: 902328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	7470A	
460-277930-2	OU3-MW2_20230404	Total/NA	Water	7470A	
460-277930-3	FB_20230404	Total/NA	Water	7470A	
460-277930-4	OUX-MWX_20230404	Total/NA	Water	7470A	
MB 460-902328/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-902328/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-277930-2 MS	OU3-MW2_20230404	Total/NA	Water	7470A	
460-277930-2 MSD	OU3-MW2_20230404	Total/NA	Water	7470A	
460-277930-2 DU	OU3-MW2_20230404	Total/NA	Water	7470A	

Analysis Batch: 902348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total/NA	Water	7470A	902328
460-277930-2	OU3-MW2_20230404	Total/NA	Water	7470A	902328
460-277930-3	FB_20230404	Total/NA	Water	7470A	902328
460-277930-4	OUX-MWX_20230404	Total/NA	Water	7470A	902328
MB 460-902328/1-A	Method Blank	Total/NA	Water	7470A	902328
LCS 460-902328/2-A	Lab Control Sample	Total/NA	Water	7470A	902328
460-277930-2 MS	OU3-MW2_20230404	Total/NA	Water	7470A	902328
460-277930-2 MSD	OU3-MW2_20230404	Total/NA	Water	7470A	902328
460-277930-2 DU	OU3-MW2_20230404	Total/NA	Water	7470A	902328

Analysis Batch: 902495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-277930-1	OU2-MW1_20230404	Total Recoverable	Water	6020B	902221
460-277930-2	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-3	FB_20230404	Total Recoverable	Water	6020B	902221
460-277930-4	OUX-MWX_20230404	Total Recoverable	Water	6020B	902221
MB 460-902221/1-A	Method Blank	Total Recoverable	Water	6020B	902221
LCS 460-902221/2-A	Lab Control Sample	Total Recoverable	Water	6020B	902221
460-277930-2 MS	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2 MS	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2 MSD	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2 MSD	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2 DU	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221
460-277930-2 DU	OU3-MW2_20230404	Total Recoverable	Water	6020B	902221

Lab Chronicle

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OU2-MW1_20230404
Date Collected: 04/04/23 10:05
Date Received: 04/05/23 19:00

Lab Sample ID: 460-277930-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	902213	MZS	EET EDI	04/10/23 01:31
Total/NA	Prep	3510C			902159	ZEH	EET EDI	04/09/23 08:04
Total/NA	Analysis	8270E		1	902197	YAH	EET EDI	04/09/23 20:41
Total/NA	Prep	3510C			902160	ZEH	EET EDI	04/09/23 08:14
Total/NA	Analysis	8081B		1	902231	FAM	EET EDI	04/10/23 10:13
Total/NA	Prep	3510C			365875	A2VL	ELLE	04/19/23 09:30
Total/NA	Analysis	8082A		1	366276	GM5C	ELLE	04/19/23 18:27
Total Recoverable	Prep	3005A			902221	GAE	EET EDI	04/09/23 17:55
Total Recoverable	Analysis	6020B		1	902495	CDC	EET EDI	04/11/23 13:00
Total/NA	Prep	7470A			902328	RBS	EET EDI	04/10/23 14:03
Total/NA	Analysis	7470A		1	902348	RBS	EET EDI	04/10/23 15:43

Client Sample ID: OU3-MW2_20230404
Date Collected: 04/04/23 14:50
Date Received: 04/05/23 19:00

Lab Sample ID: 460-277930-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			902221	GAE	EET EDI	04/09/23 17:55
Total Recoverable	Analysis	6020B		1	902495	CDC	EET EDI	04/11/23 12:43
Total Recoverable	Prep	3005A			902221	GAE	EET EDI	04/09/23 17:55
Total Recoverable	Analysis	6020B		10	902495	CDC	EET EDI	04/11/23 14:06
Total/NA	Prep	7470A			902328	RBS	EET EDI	04/10/23 14:03
Total/NA	Analysis	7470A		1	902348	RBS	EET EDI	04/10/23 15:01

Client Sample ID: FB_20230404
Date Collected: 04/04/23 10:10
Date Received: 04/05/23 19:00

Lab Sample ID: 460-277930-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	902213	MZS	EET EDI	04/10/23 01:09
Total/NA	Prep	3510C			902159	ZEH	EET EDI	04/09/23 08:04
Total/NA	Analysis	8270E		1	902197	YAH	EET EDI	04/09/23 21:03
Total/NA	Prep	3510C			902160	ZEH	EET EDI	04/09/23 08:14
Total/NA	Analysis	8081B		1	902231	FAM	EET EDI	04/10/23 10:29
Total/NA	Prep	3510C			364938	A2VL	ELLE	04/17/23 10:02
Total/NA	Analysis	8082A		1	365206	E9VJ	ELLE	04/17/23 17:44
Total/NA	Prep	3510C	RA		365875	A2VL	ELLE	04/19/23 09:30
Total/NA	Analysis	8082A	RA	1	366276	GM5C	ELLE	04/19/23 18:40
Total Recoverable	Prep	3005A			902221	GAE	EET EDI	04/09/23 17:55
Total Recoverable	Analysis	6020B		1	902495	CDC	EET EDI	04/11/23 13:03
Total/NA	Prep	7470A			902328	RBS	EET EDI	04/10/23 14:03
Total/NA	Analysis	7470A		1	902348	RBS	EET EDI	04/10/23 15:48

Lab Chronicle

Client: AKRF Inc
 Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	902213	MZS	EET EDI	04/10/23 01:52
Total/NA	Prep	3510C			902159	ZEH	EET EDI	04/09/23 08:04
Total/NA	Analysis	8270E		1	902197	YAH	EET EDI	04/09/23 21:24
Total/NA	Prep	3510C			902160	ZEH	EET EDI	04/09/23 08:14
Total/NA	Analysis	8081B		1	902231	FAM	EET EDI	04/10/23 10:45
Total/NA	Prep	3510C			365875	A2VL	ELLE	04/19/23 09:30
Total/NA	Analysis	8082A		1	366276	GM5C	ELLE	04/19/23 18:53
Total Recoverable	Prep	3005A			902221	GAE	EET EDI	04/09/23 17:55
Total Recoverable	Analysis	6020B		1	902495	CDC	EET EDI	04/11/23 13:05
Total/NA	Prep	7470A			902328	RBS	EET EDI	04/10/23 14:03
Total/NA	Analysis	7470A		1	902348	RBS	EET EDI	04/10/23 15:50

Client Sample ID: TB_20230404

Lab Sample ID: 460-277930-5

Date Collected: 04/04/23 00:00

Matrix: Water

Date Received: 04/05/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	902397	SZD	EET EDI	04/11/23 10:31

Laboratory References:

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

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

Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24

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

Analysis Method	Prep Method	Matrix	Analyte
8270E	3510C	Water	3 & 4 Methylphenol

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: AKRF Inc
Project/Site: Adelaar Concord - Monticello, NY

Job ID: 460-277930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-277930-1	OU2-MW1_20230404	Water	04/04/23 10:05	04/05/23 19:00
460-277930-2	OU3-MW2_20230404	Water	04/04/23 14:50	04/05/23 19:00
460-277930-3	FB_20230404	Water	04/04/23 10:10	04/05/23 19:00
460-277930-4	OUX-MWX_20230404	Water	04/04/23 00:00	04/05/23 19:00
460-277930-5	TB_20230404	Water	04/04/23 00:00	04/05/23 19:00

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

Address: _____

TAL-8210

Regulatory Program: DW NPDES RCRA Other: _____

Company Name: **AKRF**
 Address: **245 Greenway**
 City/State/Zip: **White Plains**
 Phone: _____
 Fax: _____
 Project Name: _____
 Site: _____
 PO # **200001**

Client Contact
 Name: _____
 Title: _____

Project Manager: **200001**
 Tel/Email: _____

Site Contact: **300001**
 Lab Contact: _____

Date: **4/19/23**
 Carrier: _____

COC No: _____ of _____ COCs

Sampler: _____
 For Lab Use Only:
 Walk-in Client: _____
 Lab Sampling: _____
 Job / SDG No: **277930**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Analysis Turnaround Time		Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
						CALENDAR DAYS	WORKING DAYS			
Q02-MW1-20230404	4/19/23	1005	GW	GW				X	X	1
Q03-MW2-20230404	4/19/23	1010	GW	GW				X	X	2
FB-20230404	4/19/23	1010	W	W				X	X	3
Q04-MW1-20230404	4/19/23	1005	GW	GW				X	X	4
T01-20230404	4/19/23	1005	W	W				X	X	5



Elmsford 272

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact:	Yes	No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Company: AKRF	Received by: AKRF	Company: ETA	Date/Time: 4-19-23	1706
Relinquished by:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Company: ETA	Received by: AKRF	Company: ETA	Date/Time: 4-5-23	700
Relinquished by:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Company: AKRF	Received in Laboratory by: Joakim	Company: ETA	Date/Time: 4-19-23	1900

11/1/23



Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-277930-1

Login Number: 277930

List Source: Eurofins Edison

List Number: 1

Creator: Rivera, Kenneth

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

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-277930-1

Login Number: 277930

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 04/10/23 10:07 PM

Creator: Wrye, Shaun

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	

**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**VOLATILES BY GC/MS
SEMIVOLATILES BY GC/MS
PESTICIDES/PCBs BY GC
TOTAL METALS BY ICPMS/CV**

**For Groundwater Samples Collected
April 04, 2023
Adelaar Concord
Monticello, New York
Project #230079-0002
Collected by AKRF, Inc.**

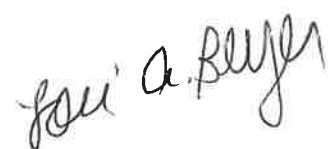
**SAMPLE DELIVERY GROUP NUMBER:
460-277930-1
BY EUROFINS EDISON - NJ (ELAP #11452)
EUROFINS LANCASTER, PA (ELAP #10670)**

SUBMITTED TO:

**Mr. Bryan Zieroff
AKRF, Inc.
34 South Broadway, Suite 314
White Plains, NY 10601**

**Cc: John Sulich/AKRF, Inc.
Stephen Schmid/AKRF, Inc.**

April 29, 2023



PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**

Adelaar Concord, Monticello, New York – Data Usability Summary Report (Data Validation):
April 2023 Groundwater Sampling Event
Volatiles, Semivolatiles, Pesticides, PCBs, and Total Metals.

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APPENDICES:

- A. Chain of Custody Documents and Sample Receipt Checklists
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

Introduction:

A validation was performed on groundwater samples and the associated quality control samples (MS/MSD/Field Duplicate/Field Blank/Trip Blank) for organic/inorganic analysis for samples collected under chain of custody documentation by AKRF, Inc. and submitted to Eurofins Edison for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The analysis was performed in accordance with requested tests per the chain of custody document. PCBs analysis was performed at Eurofins Lancaster, PA.

The samples were analyzed by Eurofins Edison and Lancaster, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing for groundwater samples consisted of the Part 375 analyte lists for Volatile Organics, Semivolatile Organics, Pesticides, PCBs, and Total Metals.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review and EPA Region II SOPs for 8260, 8270, 8081, 8082 and Metals and in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

Sample ID	Lab ID	Analysis	Date Collected/Received
OU2-MW1_20230404	460-277930-1	Volatiles, Semivolatiles, Pesticides, PCBs, Total Metals	04/04/2023 04/05/2023
OU3-MW2_20220230404 [Plus, MS/MSD]	460-277930-2	Total Metals	04/04/2023 04/05/2023
FB_20230404	460-277930-3	Volatiles, Semivolatiles, Pesticides, PCBs, Total Metals	04/04/2023 04/05/2023
OUX-MWX_20230404 [Field Duplicate of OU2-MW1_20230404]	460-277930-4	Volatiles, Semivolatiles, Pesticides, PCBs, Total Metals	04/04/2023 04/05/2023
TB_20230404	460-277930-5	Volatiles	04/04/2023 04/05/2023

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.
- J+ - The result is an estimated quantity, but the result may be biased high. (Equis Qualified, JK)
- J- - The result is an estimated quantity, but the result may be biased low. (Equis Qualified, JL)
- D - Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody document indicates that the samples were received at Eurofins Laboratories via laboratory courier upon completion of the sampling event on April 05, 2023. Sample login notes were generated. The cooler temperature for the aqueous sample receipt was recorded upon receipt at Eurofins and determined to be acceptable (<6.0 degrees C) for the coolers (0.7 and 1.6 degrees C). The actual temperatures are recorded on the chain of custody document in addition to the Case Narrative provided in Appendices A and B of this report.

No problems and/or discrepancies were noted, consequently, the integrity of the groundwater samples has been assumed to be good.

The data summary Form I's included in Appendix C and Equis deliverable includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's and onto the excel spreadsheet for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by GC/MS SW846 Method 8260D

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results are valid and useable as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J." The non-detects (sample quantitation limits) are required to be flagged as estimated, "J," or unusable, "R," if the holding times are grossly exceeded.

Samples were analyzed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis for HCL preserved vials. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) for Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8 and 4-Bromofluorobenzene were found to be within acceptable limits for surrogate compounds for all analyses.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD data was not provided in the lab report. Sample results could not be evaluated based on matrix spike data.

The National Functional Guidelines and EPA Region 2 SOPs state that “No qualifications to the data are necessary based on MS data alone.”

1.4 Laboratory Control Sample/Laboratory Control Duplicate

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/LCS Duplicate was analyzed with the analytical sequence. Recovery values were acceptable for all spiked analytes.

1.5 Blank Contamination

Quality assurance (QA) blanks, i.e., method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>/= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	</= CRQL*	Report CRQL value with a U
		>/=CRQL* and </= blank concentration	Report blank value for sample concentration with a U
		>/= CRQL* and > blank concentration	No qualification required
	=CRQL*	</= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
Gross Contamination**	Detects	Report blank value for sample concentration with a U	

*2x the CRQL for methylene chloride, 2-butanone, and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L. Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

No target analytes were detected in the method blank associated with sample analysis.

B) Field Blank Contamination:

No target analytes were detected in FB_20230404.

C) Trip Blank Contamination:

Target analytes were not detected in TB_20240404.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for (once prior to ICAL for 8260D) Bromofluorobenzene (BFB) for all analyses.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can produce acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verifications were acceptable (<30%).

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J." All non-detection for that compound in the corresponding samples will be rejected, "R." Method 8260D allows for a minimum response factor of 0.1 for Acetone and 2-Butanone. Validation criteria allows response factor to be ≥ 0.01 for poor responders (Acetone, MEK, Carbon Disulfide, Chloroethane, Chloromethane, Cyclohexane, 1,2-Dibromoethane, Dichlorodifluoromethane, cis-1,2-Dichloroethene, 1,2-Dichloropropane, 1,2-Dibromo-3-chloropropane, Isopropylbenzene, Methyl Acetate, Methylene Chloride, Methylcyclohexane, MTBE, trans-1,2-Dichloroethene, 4-Methyl-2-Pentanone, 2-Hexanone, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane).

The response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) and (≥ 0.01 for poor responders) and minimum response criteria in Table 4 of Method 8260D, for the initial and continuing calibrations for all reported analytes.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R," unusable. Additionally, in cases where the %RSD is $> 20\%$ and eliminating either the high or the low point of the

curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Closing CCV must meet 30% criteria. Poor responders must be $\leq 40\%$.

*Method 8260D allows for several analytes to be outside requirements due to the large number of compounds.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) and (40% for poor responders) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) and (40% for poor responders) for all reported compounds with exceptions discussed below:

CCAL CVOAMS7 04/09/2023 – Vinyl Chloride – 23.2%; "UJ" non-detects in FB_20230404, OU2-MW-1_20230404, and OUX_MWX_20230404.

CCAL CVOAMS7 04/11/2023 – Vinyl Chloride – 27.0%; "UJ" non-detects in TB_20230404.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Samples were spiked with the internal standards 1,4-Dioxane-d8, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4, TBA-d9, 2-Butanone-d5 and Fluorobenzene prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Acceptable RPD is 25%. Field Duplicate analysis was conducted on OU2-MW1_20230404 as OUX-MWX_20230404. Precision is acceptable for detected analytes 2-Butanone (3.0 ug/L vs. 2.8 ug/L), Acetone (6.6 ug/L vs. 7.2 ug/L), Benzene (0.39 ug/L vs. 0.32 ug/L), Ethylbenzene (1.0 ug/L vs. 0.95 ug/L), MTBE (0.42 ug/L vs. 0.40 ug/L), and Toluene (2.4 ug/L vs 2.2 ug/L). Low concentration of cis-1,2-Dichloroethene (0.24 ug/L) was detected in the parent sample and not in the field duplicate (1.0 U). The parent concentration is less than the laboratory reporting limit and qualified, "J" by the laboratory. No additional qualifiers were applied.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within $\pm 0.06RRT$ units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is acceptable. Correct internal standards per SW846 and response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Groundwater samples were analyzed undiluted. Tentatively Identified Compounds (TICs) were not required. Sample chromatograms do not demonstrate any significant non-target presence.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed.

2.0 Semivolatile Organics by GC/MS SW846 Method 8270E

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits, and overall system performance. The Semivolatile results are valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J." The non-detects (sample quantitation limits) are required to be flagged as estimated, "J," or unusable, "R," if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times (7 days from collection to extraction for groundwater samples and 40 days from extraction to analysis) required for data validation.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Samples were spiked with six (6) surrogate standards at the sample extraction portion of analysis. Acceptable recoveries were observed. Method allows for one (1) base neutral and one (1) acid recovery to be outside acceptance limits without requiring reextraction/reanalysis.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

MS/MSD data was not provided in the lab report. Sample results could not be evaluated based on matrix spike data.

The National Functional Guidelines and EPA Region 2 SOPs state that “No qualifications to the data are necessary based on MS data alone.”

2.4 Laboratory Control Sample/Laboratory Control Duplicate

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/LCS Duplicate was extracted and analyzed with the analytical batch. Recovery values and RPD were acceptable.

2.5 Method Blanks

Quality assurance (QA) blanks, i.e., method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a “U” when:	Report CRQL & Qualify “U” when:	No Qualification is Needed when:
Phthalates (common laboratory contaminants)	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value
Other Contaminants	Sample Conc. is >CRQL, but $\leq 1x$ blank value	Sample Conc. Is <CRQL and $\leq 1x$ blank value	Sample Conc. is >CRQL and $> 1x$ blank value

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

A) Method Blank Contamination:

Target analytes were not detected in the method blank.

B) Field Blank Contamination:

No target analytes were detected in FB_20230404.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatiles organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (once prior to ICAL for SW846 Method 8270E) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J." All non-detects for that compound in the corresponding samples will be rejected, "R."

The response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R," unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Due to the large number of analytes in this method, it is expected for some analytes to fall outside acceptance criteria and the calibration is still considered valid. Acceptable Initial Calibration Verifications were performed ($< 30\%$).

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds except for Pentachlorophenol (23.4%) in the CCV. Non-detects for all this analyte in all samples has been qualified, "UJ."

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ± 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Area responses and retention times fell within established QC ranges for sample analysis.

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. An acceptable RPD is 25%. Field duplicate analysis was conducted on OU2-MW1_20230404 as OUX_MWX_20230404. Precision is acceptable for detected analytes 3&4-Methyphenol (12 ug/L vs 11 ug/L, and Phenol (0.64 ug/L vs. 0.54 ug/L).

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet the qualitative criteria for identification.

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is acceptable. Correct internal standards and response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Samples were analyzed undiluted. Groundwater samples were extracted by Method 3510C and extracted with an initial volume of 250mls and concentrated to 2ml final volume. Groundwater samples were analyzed undiluted. Tentatively Identified Compounds (TICs) were not required. Sample chromatograms do not demonstrate any significant non-target presence.

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis.

3.0 Pesticides by GC SW846 Method 8081B, PCBs by SW846 Method 8082A

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits, and overall system performance. The Pesticide and PCB results are valid and usable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J." The non-detects (sample quantitation limits) are required to be flagged as estimated, "J," or unusable, "R," if the holding times are grossly exceeded.

Samples were initially extracted and analyzed within the method required holding times and the technical holding times required for data validation (7 days for liquid samples) for extraction. Extracts were analyzed within forty (40) days in accordance with the analytical method requirements. Due to LCS recovery outliers, FB_20230404 was reextracted for PCBs. The reextraction was performed within 15 days from collection. Both initial and reanalysis data were provided in the data package. No PCB pattern was observed for either run. The initial data should be utilized and therefore, reextracted results have been rejected, "R."

3.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. No qualifications were applied if one of the spiked surrogates is above acceptance limits on one of the two columns. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Pesticides:

Surrogate recovery values for TCX and DCB were within laboratory established limits.

PCBs:

Acceptable surrogate recovery values for initial analyses. DCB and TCX recovered below laboratory in-house established limits in reanalysis of FB_20230404 on both columns (38%/40%). Validation criteria allows limits of 30-150%. The initial data should be utilized for FB_20230404 as discussed in Section 3.1 above.

3.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Pesticides MS/MSD data was not provided in the lab report. Pesticide sample results could not be evaluated based on matrix spike data. Batch MS/MSD was provided in the data package for PCBs. Sample results were not qualified based on samples collected from a different site.

The National Functional Guidelines and EPA Region 2 SOPs state that “No qualifications to the data are necessary based on MS data alone.”

3.4 Laboratory Control Sample/Laboratory Control Duplicate

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/LCS Duplicates were analyzed for the analytical extraction batches for Pesticides and PCBs. Recovery values and RPD were acceptable for Pesticides. PCB LCS associated with FB_20230404 yielded Aroclor 1016 (51%) and Aroclor 1260 (67%) below limits. FB_20240404 was reextracted and surrogate recovery was below laboratory limits. The initial data should be utilized and non-detects for the spiked Aroclors must be considered estimated, “UJ.”

3.5 Blanks

Quality assurance (QA) blanks, i.e., method, instrument, trip, and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $>5x$ blank value

Extraction and Instrument blanks were performed at the appropriate frequency. Below is a summary of blank contamination:

A) Method Blank Contamination:

No target analytes were detected in the associated method blanks. No data validation qualifiers were required based upon method blank data.

B) Field Blank Contamination:

No target analytes were detected in FB_20230404.

3.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide and PCB standards. Acceptable DDT and Endrin breakdown percent difference ($<20\%$) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns. Resolution check met criteria and performance evaluation mixture met acceptance criteria. Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

- %RSD $\leq 20\%$ for single component compounds except alpha-BHC and delta-BHC
- %RSD $\leq 30\%$ for Toxaphene peaks
- %RSD $\leq 30\%$ for surrogates (TCX and DCB)
- %RSD $<20\%$ for PCB aroclors

Continuing calibration verifications:

For Pesticide analysis, the acceptable percent difference for any Pesticide is 20% and for PCB analysis, the acceptable limit is 15%. Calibrations met method requirements for Pesticide/PCBs on either Channel A or B.

3.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. An acceptable RPD is 25%. Field duplicate analysis was conducted on OU2-MW1_20230404 as OUX-MWX_20240404. Precision is acceptable. No target Pesticide or PCB analytes were detected in either analysis.

3.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards.

Acceptable DDT/Endrin breakdown was observed.

Positive Pesticide and PCB sample results are compared and where %Difference $>25\%$ when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

<u>%Difference</u>	<u>Qualifier</u>
0-25%	None
26-70%	"J"
71-100%	"JN"
101-200% (no interference)	"R"
101-200% (interference detected) *	"JN"
>50% (Pesticide value is <CRQL)**	"U."
>201%	"R"

*When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, "JN."

** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify "U", undetected.

Acceptable percent difference was obtained for all detected analytes in the LCS/LCS Duplicates. No target compounds were detected in field groundwater samples.

3.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower concentrations for primary/confirmatory column results as required.

Samples were analyzed undiluted. Samples were analyzed via the internal standard method using 1-Bromo-2-nitrobenzene. Acceptable area responses and retention time were observed for all samples.

3.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

Groundwater samples were concentrated to 1ml for Pesticides from an initial volume of 250mls by Method 3510C and concentrated to 1ml final volume. Low-level PCB analysis was extracted from approximately 1000ml and concentrated to 5ml to achieve lower reporting levels. This is acceptable practice and method compliant. The laboratory reporting levels reflect the appropriate extraction concentration volumes.

4.0 Metals by ICPMS/Cold Vapor SW846 Methods 6020B/7470A

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICPMS serial dilutions and sample results verification. Metals results are valid and usable with the appropriate qualifiers as notated in the following text:

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J." The non-detects (sample quantitation limits) are required to be flagged as estimated, "J," or unusable, "R," if the holding times are grossly exceeded.

Groundwater samples were digested and analyzed for Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

4.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments can produce acceptable quantitative data. An initial calibration demonstrates that the instruments can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICPMS and Mercury instruments were calibrated utilizing a minimum of a five-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding percent recovery between 90-110% and correlation coefficients of 0.990 or greater. Acceptable tuning criteria was met (<5%) RSD for ICPMS.

For ICPMS analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels and analyzed at the required frequency at the beginning and end of each analytical run. Acceptable low level ICV/CCV was also analyzed.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples. Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICPMS and Mercury (80-120%) for all field samples. No qualifications were applied based upon ICV/CCV analysis.

4.3 Blanks

Quality assurance (QA) blanks, i.e., method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB blanks were generated within acceptable limits yielding final concentrations less than the CRDL (J qualified by the laboratory). Manganese (1.69 ug/L and 0.999 ug/L) was detected in several of the CCBs. The laboratory reported concentration of Manganese (2.5 ug/L) has been negated, "U" in FB_20230404.

The method blank yielded Zinc (3.06 ug/L). This detection is less than the laboratory reporting limit (16 ug/L) and therefore qualified, "J" by the laboratory. The laboratory reported concentrations for Zinc in OU2-MW1_20230404 (3.9 ug/L), OU3-MW2_20230404 (15.9 ug/L), FB_20230404 (2.5 ug/L), and OUX-MWX_20230404 (3.6 ug/L) have been negated, "U" due to method blank contamination.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects.

Between 30%-74% - results \geq MDL "J" and non-detects "UJ"

Between 126-150% - results \geq MDL "J" and

>150% - results \geq MDL "R"

MS/MSD was performed on OU3-MW2_20230404. Acceptable recovery values were obtained where the sample concentration was >4x the spike level (Barium and Manganese). Acceptable post digestion spike was analyzed. No qualifications for the data were required.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >=20% but <100% - J detected concentrations.

RPD >=100% - R all detected and non-detected concentrations.

Laboratory duplicate of OU3-MW2_20230404 resulted in acceptable RPD for all reported elements.

Field Duplicates:

RPD >=35% but <120% - qualify sample and duplicate results >= CRQL "J"

RPD >= 120% - rejected sample and duplicate results >= CRQL "R"

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Field duplicate analysis was conducted on OU2-MW1_20230404 as OUX-MWX_20240404. Precision is acceptable for detected metals – Arsenic (3.1 ug/L vs. 3.5 ug/L), Barium (183 ug/L vs. 189 ug/L), Copper (1.0 ug/L vs. 1.1 ug/L), Manganese (8310 ug/L vs 8700 ug/L), and Nickel (1.9 ug/L vs. 1.6 ug/L). Low concentration of Selenium (0.39 ug/L) – “J” qualified by the laboratory was detected in the parent sample and not in the field duplicate (2.50 U). No qualifiers were applied.

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for ICPMS and Mercury. Recoveries were within the acceptable limits for Metals analyses (80-120%).

4.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions, A and AB. Solution A consists of interference, and solution AB consists of analytes mixed with interferents.

SW846 Method 6020 requires solution A and solution AB to be analyzed separately. The recoveries for the ICPMS interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

4.8 ICPMS Serial Dilution

The serial dilution of samples quantitated by ICP determines whether significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICPMS serial dilutions were performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. Serial dilution analysis on OU3-MW2_20230404 agrees within a 10% difference of the original determination after correction for dilution for all reported elements.

4.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results. Acceptable internal standard intensity was observed. Sample OU3-MW2_20230404 was reanalyzed at 1:10 dilution to obtain Manganese within the instrument's linear calibration range.

4.10 Overall Assessment of Data

The data generated was of acceptable quality. Results are usable at the concentrations presented in the validated spreadsheet and on the Form I's.

Reviewer's Signature Pou' A. Bly Date 04/29/2023

**Appendix A
Chain of Custody Documents
And Sample Receipt Checklists**

Chain of Custody Record

637139  eurofins

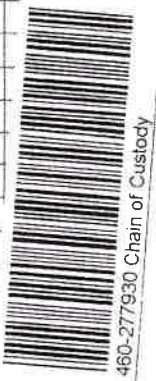
Environment Testing
America

TAL-0210

Regulatory Program: DW NPDES RCRA Other:

Client Contact: _____
 Company Name: **AKOP**
 Address: **215 GREENWAY**
 City/State/Zip: **WHITE OAKS**
 Phone: _____
 Project Name: _____
 Job / SDG No: **277930**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Analysis Turnaround Time		Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact:	Site Contact:	Date: 4/23/05	COC No	of	COC's	
						CALENDAR DAYS	WORKING DAYS									
02-MW1-20030404	4/23/05		GW	GW												
03-MW2-20030404	4/23/05		GW	GW												
04-MW3-20030404	4/23/05		W	W												
05-MW4-20030404	4/23/05		GW	GW												
06-MW5-20030404	4/23/05		W	W												



Elmsford 272

Observation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other
 Possible Hazard Identification: _____
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Unknown Poison B

Company	Date/Time	Received by	Cooler Temp (°C)	Obs'd	Con'd	Return to Client	Disposal by Lab	Archive for	Months
AKOP	4/23/05	AKOP							
ETA	4-5-23 1000	ETA							
ETA	4-5-23 1900	ETA							

1 / 1 / 05 P.A.N.

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-277930-1

Login Number: 277930

List Number: 1

Creator: Rivera, Kenneth

List Source: Eurofins Edison

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

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-277930-1

Login Number: 277930

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 04/10/23 10:07 PM

Creator: Wrye, Shaun

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

**Appendix B
Case Narrative**

CASE NARRATIVE

Client: AKRF Inc

Project: Adelaar Concord - Monticello, NY

Report Number: 460-277930-1

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

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

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

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

RECEIPT

The samples were received on 04/05/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3), OUX-MWX_20230404 (460-277930-4) and TB_20230404 (460-277930-5) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/10/2023 and 04/11/2023.

The continuing calibration verification (CCV) associated with batch 460-902397 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-902213 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared and analyzed on 04/09/2023.

The continuing calibration verification (CCV) associated with batch 460-902197 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 04/09/2023 and analyzed on 04/10/2023.

No difficulties were encountered during the pesticides analysis.

for 4/21/2023

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples OU2-MW1_20230404 (460-277930-1), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared and analyzed on 04/17/2023 and 04/19/2023.

The laboratory control sample (LCS) for preparation batch 410-364938 and analytical batch 410-365206 recovered outside the lower control limits for the following analytes: Aroclor 1016 and Aroclor 1260. The associated sample(s) were re-prepared and the LCS is within control limits, however the sample surrogate recovery is outside lower control limits. Results are reported from both trials. FB_20230404 (460-277930-3)

Aroclor 1016 and Aroclor 1260 failed the recovery criteria low for LCS 410-364938/2-A. Refer to the QC report for details.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples OU2-MW1_20230404 (460-277930-1), OU3-MW2_20230404 (460-277930-2), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 04/09/2023 and analyzed on 04/11/2023.

Zinc was detected in method blank MB 460-902221/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Barium and Manganese failed the recovery criteria high for the MS/MSD of sample OU3-MW2_20230404MS (460-277930-2) in batch 460-902495.

Sample OU3-MW2_20230404 (460-277930-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

MERCURY

Samples OU2-MW1_20230404 (460-277930-1), OU3-MW2_20230404 (460-277930-2), FB_20230404 (460-277930-3) and OUX-MWX_20230404 (460-277930-4) were analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/10/2023.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

for 4/28/2023

**Appendix C
Data Summary Form I's
With Qualifications**

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OU2-MW1_20230404 Lab Sample ID: 460-277930-1
 Matrix: Water Lab File ID: V35210.D
 Analysis Method: 8260D Date Collected: 04/04/2023 10:05
 Sample wt/vol: 5(mL) Date Analyzed: 04/10/2023 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 902213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.37
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.21
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.43
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.33
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.33
123-91-1	1,4-Dioxane	50	U	50	28
78-93-3	2-Butanone (MEK)	3.0	J	5.0	1.9
67-64-1	Acetone	6.6		5.0	4.4
71-43-2	Benzene	0.39	J	1.0	0.20
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.21
108-90-7	Chlorobenzene	1.0	U	1.0	0.38
67-66-3	Chloroform	1.0	U	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	0.24	J	1.0	0.22
100-41-4	Ethylbenzene	1.0		1.0	0.30
1634-04-4	Methyl tert-butyl ether	0.42	J	1.0	0.22
75-09-2	Methylene Chloride	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.32
103-65-1	N-Propylbenzene	1.0	U	1.0	0.32
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.37
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.34
127-18-4	Tetrachloroethene	1.0	U	1.0	0.25
108-88-3	Toluene	2.4		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.31
75-01-4	Vinyl chloride	1.0	U UJ	1.0	0.17
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

for 4/28/2023

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: FB_20230404 Lab Sample ID: 460-277930-3
 Matrix: Water Lab File ID: V35209.D
 Analysis Method: 8260D Date Collected: 04/04/2023 10:10
 Sample wt/vol: 5(mL) Date Analyzed: 04/10/2023 01:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 902213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.37
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.21
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.43
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.33
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.33
123-91-1	1,4-Dioxane	50	U	50	28
78-93-3	2-Butanone (MEK)	5.0	U	5.0	1.9
67-64-1	Acetone	5.0	U	5.0	4.4
71-43-2	Benzene	1.0	U	1.0	0.20
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.21
108-90-7	Chlorobenzene	1.0	U	1.0	0.38
67-66-3	Chloroform	1.0	U	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.22
100-41-4	Ethylbenzene	1.0	U	1.0	0.30
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.22
75-09-2	Methylene Chloride	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.32
103-65-1	N-Propylbenzene	1.0	U	1.0	0.32
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.37
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.34
127-18-4	Tetrachloroethene	1.0	U	1.0	0.25
108-88-3	Toluene	1.0	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.31
75-01-4	Vinyl chloride	1.0	U	1.0	0.17
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

for 4/21/2023

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OUX-MWX_20230404 Lab Sample ID: 460-277930-4
 Matrix: Water OV2-MWL-20230404 Lab File ID: V35211.D
 Analysis Method: 8260D Date Collected: 04/04/2023 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 04/10/2023 01:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 902213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.37
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.21
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.43
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.33
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.33
123-91-1	1,4-Dioxane	50	U	50	28
78-93-3	2-Butanone (MEK)	2.8	J	5.0	1.9
67-64-1	Acetone	7.2	J	5.0	4.4
71-43-2	Benzene	0.32	J	1.0	0.20
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.21
108-90-7	Chlorobenzene	1.0	U	1.0	0.38
67-66-3	Chloroform	1.0	U	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.22
100-41-4	Ethylbenzene	0.95	J	1.0	0.30
1634-04-4	Methyl tert-butyl ether	0.40	J	1.0	0.22
75-09-2	Methylene Chloride	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.32
103-65-1	N-Propylbenzene	1.0	U	1.0	0.32
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.37
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.34
127-18-4	Tetrachloroethene	1.0	U	1.0	0.25
108-88-3	Toluene	2.2	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.31
75-01-4	Vinyl chloride	1.0	U	1.0	0.17
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

for 4/28/2023

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: TB_20230404 Lab Sample ID: 460-277930-5
 Matrix: Water Lab File ID: V35291.D
 Analysis Method: 8260D Date Collected: 04/04/2023 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 04/11/2023 10:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 902397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.37
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.21
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.43
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.33
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.33
123-91-1	1,4-Dioxane	50	U	50	28
78-93-3	2-Butanone (MEK)	5.0	U	5.0	1.9
67-64-1	Acetone	5.0	U	5.0	4.4
71-43-2	Benzene	1.0	U	1.0	0.20
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.21
108-90-7	Chlorobenzene	1.0	U	1.0	0.38
67-66-3	Chloroform	1.0	U	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.22
100-41-4	Ethylbenzene	1.0	U	1.0	0.30
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.22
75-09-2	Methylene Chloride	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.32
103-65-1	N-Propylbenzene	1.0	U	1.0	0.32
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.37
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.34
127-18-4	Tetrachloroethene	1.0	U	1.0	0.25
108-88-3	Toluene	1.0	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.31
75-01-4	Vinyl chloride	1.0	U	1.0	0.17
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

FOR 4/28/2023

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OU2-MW1_20230404 Lab Sample ID: 460-277930-1
 Matrix: Water Lab File ID: N42502.d
 Analysis Method: 8270E Date Collected: 04/04/2023 10:05
 Extract. Method: 3510C Date Extracted: 04/09/2023 08:04
 Sample wt/vol: 250(mL) Date Analyzed: 04/09/2023 20:41
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 5(uL) GC Column: Rtxi-5Sil MS ID: 0.25(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 902197 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-48-7	2-Methylphenol	10	U	10	0.67
15831-10-4	3 & 4 Methylphenol	12		10	0.64
83-32-9	Acenaphthene	10	U	10	1.1
208-96-8	Acenaphthylene	10	U	10	0.82
120-12-7	Anthracene	10	U	10	1.3
56-55-3	Benzo[a]anthracene	1.0	U	1.0	0.59
50-32-8	Benzo[a]pyrene	1.0	U	1.0	0.41
205-99-2	Benzo[b]fluoranthene	2.0	U	2.0	0.68
191-24-2	Benzo[g,h,i]perylene	10	U	10	0.70
207-08-9	Benzo[k]fluoranthene	1.0	U	1.0	0.67
218-01-9	Chrysene	2.0	U	2.0	0.91
53-70-3	Dibenz(a,h)anthracene	1.0	U	1.0	0.72
132-64-9	Dibenzofuran	10	U	10	1.1
206-44-0	Fluoranthene	10	U	10	0.84
86-73-7	Fluorene	10	U	10	0.91
118-74-1	Hexachlorobenzene	1.0	U	1.0	0.40
193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94
91-20-3	Naphthalene	2.0	U	2.0	0.54
87-86-5	Pentachlorophenol	20	U	20	1.4
85-01-8	Phenanthrene	10	U	10	1.3
108-95-2	Phenol	0.64	J	10	0.29
129-00-0	Pyrene	10	U	10	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	136		37-150
321-60-8	2-Fluorobiphenyl	116		46-139
367-12-4	2-Fluorophenol (Surr)	56		19-80
4165-60-0	Nitrobenzene-d5 (Surr)	115		52-137
4165-62-2	Phenol-d5 (Surr)	36		10-56
1718-51-0	Terphenyl-d14 (Surr)	54		22-150

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: FB_20230404 Lab Sample ID: 460-277930-3
 Matrix: Water Lab File ID: N42503.d
 Analysis Method: 8270E Date Collected: 04/04/2023 10:10
 Extract. Method: 3510C Date Extracted: 04/09/2023 08:04
 Sample wt/vol: 250(mL) Date Analyzed: 04/09/2023 21:03
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 5(uL) GC Column: Rtxi-5Sil MS ID: 0.25(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 902197 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-48-7	2-Methylphenol	10	U	10	0.67
15831-10-4	3 & 4 Methylphenol	10	U	10	0.64
83-32-9	Acenaphthene	10	U	10	1.1
208-96-8	Acenaphthylene	10	U	10	0.82
120-12-7	Anthracene	10	U	10	1.3
56-55-3	Benzo[a]anthracene	1.0	U	1.0	0.59
50-32-8	Benzo[a]pyrene	1.0	U	1.0	0.41
205-99-2	Benzo[b]fluoranthene	2.0	U	2.0	0.68
191-24-2	Benzo[g,h,i]perylene	10	U	10	0.70
207-08-9	Benzo[k]fluoranthene	1.0	U	1.0	0.67
218-01-9	Chrysene	2.0	U	2.0	0.91
53-70-3	Dibenz(a,h)anthracene	1.0	U	1.0	0.72
132-64-9	Dibenzofuran	10	U	10	1.1
206-44-0	Fluoranthene	10	U	10	0.84
86-73-7	Fluorene	10	U	10	0.91
118-74-1	Hexachlorobenzene	1.0	U	1.0	0.40
193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94
91-20-3	Naphthalene	2.0	U	2.0	0.54
87-86-5	Pentachlorophenol	20	U	20	1.4
85-01-8	Phenanthrene	10	U	10	1.3
108-95-2	Phenol	10	U	10	0.29
129-00-0	Pyrene	10	U	10	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	114		37-150
321-60-8	2-Fluorobiphenyl	105		46-139
367-12-4	2-Fluorophenol (Surr)	50		19-80
4165-60-0	Nitrobenzene-d5 (Surr)	108		52-137
4165-62-2	Phenol-d5 (Surr)	32		10-56
1718-51-0	Terphenyl-d14 (Surr)	79		22-150

for 4/28/2023
4/21/2023 3:48 PM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OUX-MWX_20230404 Lab Sample ID: 460-277930-4
 Matrix: Water Ouz-MWI-20230404 Lab File ID: N42504.d
 Analysis Method: 8270E Date Collected: 04/04/2023 00:00
 Extract. Method: 3510C Date Extracted: 04/09/2023 08:04
 Sample wt/vol: 250(mL) Date Analyzed: 04/09/2023 21:24
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 5(uL) GC Column: Rtxi-5Sil MS ID: 0.25(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 902197 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-48-7	2-Methylphenol	10	U	10	0.67
15831-10-4	3 & 4 Methylphenol	11		10	0.64
83-32-9	Acenaphthene	10	U	10	1.1
208-96-8	Acenaphthylene	10	U	10	0.82
120-12-7	Anthracene	10	U	10	1.3
56-55-3	Benzo[a]anthracene	1.0	U	1.0	0.59
50-32-8	Benzo[a]pyrene	1.0	U	1.0	0.41
205-99-2	Benzo[b]fluoranthene	2.0	U	2.0	0.68
191-24-2	Benzo[g,h,i]perylene	10	U	10	0.70
207-08-9	Benzo[k]fluoranthene	1.0	U	1.0	0.67
218-01-9	Chrysene	2.0	U	2.0	0.91
53-70-3	Dibenz(a,h)anthracene	1.0	U	1.0	0.72
132-64-9	Dibenzofuran	10	U	10	1.1
206-44-0	Fluoranthene	10	U	10	0.84
86-73-7	Fluorene	10	U	10	0.91
118-74-1	Hexachlorobenzene	1.0	U	1.0	0.40
193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94
91-20-3	Naphthalene	2.0	U	2.0	0.54
87-86-5	Pentachlorophenol	20	U	20	1.4
85-01-8	Phenanthrene	10	U	10	1.3
108-95-2	Phenol	0.54	J	10	0.29
129-00-0	Pyrene	10	U	10	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	124		37-150
321-60-8	2-Fluorobiphenyl	105		46-139
367-12-4	2-Fluorophenol (Surr)	51		19-80
4165-60-0	Nitrobenzene-d5 (Surr)	106		52-137
4165-62-2	Phenol-d5 (Surr)	32		10-56
1718-51-0	Terphenyl-d14 (Surr)	47		22-150

for 4/28/2023

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OU2-MW1_20230404 Lab Sample ID: 460-277930-1
 Matrix: Water Lab File ID: 4F0011353.D
 Analysis Method: 8081B Date Collected: 04/04/2023 10:05
 Extraction Method: 3510C Date Extracted: 04/09/2023 08:14
 Sample wt/vol: 250(mL) Date Analyzed: 04/10/2023 10:13
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: Rtx-CLP ID: 0.53(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 902231 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.020	U	0.020	0.0060
72-55-9	4,4'-DDE	0.020	U	0.020	0.0020
50-29-3	4,4'-DDT	0.020	U	0.020	0.0040
309-00-2	Aldrin	0.020	U	0.020	0.0030
319-84-6	alpha-BHC	0.020	U	0.020	0.0070
319-85-7	beta-BHC	0.020	U	0.020	0.015
12789-03-6	Chlordane (technical)	0.50	U	0.50	0.055
5103-71-9	cis-Chlordane	0.020	U	0.020	0.0020
319-86-8	delta-BHC	0.020	U	0.020	0.0050
60-57-1	Dieldrin	0.020	U	0.020	0.0030
959-98-8	Endosulfan I	0.020	U	0.020	0.0020
33213-65-9	Endosulfan II	0.020	U	0.020	0.0040
1031-07-8	Endosulfan sulfate	0.020	U	0.020	0.0060
72-20-8	Endrin	0.020	U	0.020	0.0040
7421-93-4	Endrin aldehyde	0.020	U	0.020	0.0080
53494-70-5	Endrin ketone	0.020	U	0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.020	U	0.020	0.012
76-44-8	Heptachlor	0.020	U	0.020	0.0030
1024-57-3	Heptachlor epoxide	0.020	U	0.020	0.0050
72-43-5	Methoxychlor	0.020	U	0.020	0.0040
8001-35-2	Toxaphene	0.50	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	79		15-121
877-09-8	Tetrachloro-m-xylene	71		17-120

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FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: FB_20230404 Lab Sample ID: 460-277930-3
 Matrix: Water Lab File ID: 4F0011354.D
 Analysis Method: 8081B Date Collected: 04/04/2023 10:10
 Extraction Method: 3510C Date Extracted: 04/09/2023 08:14
 Sample wt/vol: 250(mL) Date Analyzed: 04/10/2023 10:29
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: Rtx-CLP ID: 0.53(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 902231 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.020	U	0.020	0.0060
72-55-9	4,4'-DDE	0.020	U	0.020	0.0020
50-29-3	4,4'-DDT	0.020	U	0.020	0.0040
309-00-2	Aldrin	0.020	U	0.020	0.0030
319-84-6	alpha-BHC	0.020	U	0.020	0.0070
319-85-7	beta-BHC	0.020	U	0.020	0.015
12789-03-6	Chlordane (technical)	0.50	U	0.50	0.055
5103-71-9	cis-Chlordane	0.020	U	0.020	0.0020
319-86-8	delta-BHC	0.020	U	0.020	0.0050
60-57-1	Dieldrin	0.020	U	0.020	0.0030
959-98-8	Endosulfan I	0.020	U	0.020	0.0020
33213-65-9	Endosulfan II	0.020	U	0.020	0.0040
1031-07-8	Endosulfan sulfate	0.020	U	0.020	0.0060
72-20-8	Endrin	0.020	U	0.020	0.0040
7421-93-4	Endrin aldehyde	0.020	U	0.020	0.0080
53494-70-5	Endrin ketone	0.020	U	0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.020	U	0.020	0.012
76-44-8	Heptachlor	0.020	U	0.020	0.0030
1024-57-3	Heptachlor epoxide	0.020	U	0.020	0.0050
72-43-5	Methoxychlor	0.020	U	0.020	0.0040
8001-35-2	Toxaphene	0.50	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	76		15-121
877-09-8	Tetrachloro-m-xylene	74		17-120

Jan 4/28/2023

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-277930-1
 SDG No.: _____
 Client Sample ID: OUX-MWX_20230404 Lab Sample ID: 460-277930-4
 Matrix: Water *OUX-MWX-20230404* Lab File ID: 4F0011355.D
 Analysis Method: 8081B Date Collected: 04/04/2023 00:00
 Extraction Method: 3510C Date Extracted: 04/09/2023 08:14
 Sample wt/vol: 250(mL) Date Analyzed: 04/10/2023 10:45
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: Rtx-CLP ID: 0.53(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 902231 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.020	U	0.020	0.0060
72-55-9	4,4'-DDE	0.020	U	0.020	0.0020
50-29-3	4,4'-DDT	0.020	U	0.020	0.0040
309-00-2	Aldrin	0.020	U	0.020	0.0030
319-84-6	alpha-BHC	0.020	U	0.020	0.0070
319-85-7	beta-BHC	0.020	U	0.020	0.015
12789-03-6	Chlordane (technical)	0.50	U	0.50	0.055
5103-71-9	cis-Chlordane	0.020	U	0.020	0.0020
319-86-8	delta-BHC	0.020	U	0.020	0.0050
60-57-1	Dieldrin	0.020	U	0.020	0.0030
959-98-8	Endosulfan I	0.020	U	0.020	0.0020
33213-65-9	Endosulfan II	0.020	U	0.020	0.0040
1031-07-8	Endosulfan sulfate	0.020	U	0.020	0.0060
72-20-8	Endrin	0.020	U	0.020	0.0040
7421-93-4	Endrin aldehyde	0.020	U	0.020	0.0080
53494-70-5	Endrin ketone	0.020	U	0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.020	U	0.020	0.012
76-44-8	Heptachlor	0.020	U	0.020	0.0030
1024-57-3	Heptachlor epoxide	0.020	U	0.020	0.0050
72-43-5	Methoxychlor	0.020	U	0.020	0.0040
8001-35-2	Toxaphene	0.50	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	77		15-121
877-09-8	Tetrachloro-m-xylene	72		17-120

for 4/18/2023

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-277930-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: OU2-MW1_20230404 Lab Sample ID: 460-277930-1

Matrix: Water Lab File ID: 14PCBL230102005.008.D

Analysis Method: 8082A Date Collected: 04/04/2023 10:05

Extraction Method: 3510C Date Extracted: 04/19/2023 09:30

Sample wt/vol: 900.5(mL) Date Analyzed: 04/19/2023 18:27

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB CLP1 ID: 0.32(mm)

% Moisture: % Solids: GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 366276 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.011	U	0.011	0.0089
11104-28-2	Aroclor 1221	0.011	U	0.011	0.0089
11141-16-5	Aroclor 1232	0.011	U	0.011	0.0089
53469-21-9	Aroclor 1242	0.011	U	0.011	0.0089
12672-29-6	Aroclor 1248	0.011	U	0.011	0.0089
11097-69-1	Aroclor 1254	0.011	U	0.011	0.0056
11096-82-5	Aroclor 1260	0.011	U	0.011	0.0056
37324-23-5	Aroclor 1262	0.011	U	0.011	0.0056
11100-14-4	Aroclor 1268	0.011	U	0.011	0.0056

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	78		46-161
877-09-8	Tetrachloro-m-xylene	47		41-146

for 4/28/2023

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 460-277930-1

SDG No.:

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Matrix: Water

Lab File ID: 14PCBL230102004.009.D

Analysis Method: 8082A

Date Collected: 04/04/2023 10:10

Extraction Method: 3510C

Date Extracted: 04/17/2023 10:02

Sample wt/vol: 864.2(mL)

Date Analyzed: 04/17/2023 17:44

Con. Extract Vol.: 5(mL)

Dilution Factor: 1

Injection Volume: 1(uL)

GC Column: DB CLP1 ID: 0.32(mm)

% Moisture:

% Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 365206

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.012	U	0.012	0.0093
11104-28-2	Aroclor 1221	0.012	U	0.012	0.0093
11141-16-5	Aroclor 1232	0.012	U	0.012	0.0093
53469-21-9	Aroclor 1242	0.012	U	0.012	0.0093
12672-29-6	Aroclor 1248	0.012	U	0.012	0.0093
11097-69-1	Aroclor 1254	0.012	U	0.012	0.0058
11096-82-5	Aroclor 1260	0.012	U	0.012	0.0058
37324-23-5	Aroclor 1262	0.012	U	0.012	0.0058
11100-14-4	Aroclor 1268	0.012	U	0.012	0.0058

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	103		46-161
877-09-8	Tetrachloro-m-xylene	58		41-146

for 4/28/2023

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 460-277930-1

SDG No.:

Client Sample ID: FB_20230404 RA

Lab Sample ID: 460-277930-3 RA

Matrix: Water

Lab File ID: 14PCBL230102005.009.D

Analysis Method: 8082A

Date Collected: 04/04/2023 10:10

Extraction Method: 3510C

Date Extracted: 04/19/2023 09:30

Sample wt/vol: 837.9(mL)

Date Analyzed: 04/19/2023 18:40

Con. Extract Vol.: 5(mL)

Dilution Factor: 1

Injection Volume: 1(uL)

GC Column: DB CLP1 ID: 0.32(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 366276

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.012	U P	0.012	0.0095
11104-28-2	Aroclor 1221	0.012	U P	0.012	0.0095
11141-16-5	Aroclor 1232	0.012	U P	0.012	0.0095
53469-21-9	Aroclor 1242	0.012	U P	0.012	0.0095
12672-29-6	Aroclor 1248	0.012	U P	0.012	0.0095
11097-69-1	Aroclor 1254	0.012	U P	0.012	0.0060
11096-82-5	Aroclor 1260	0.012	U P	0.012	0.0060
37324-23-5	Aroclor 1262	0.012	U P	0.012	0.0060
11100-14-4	Aroclor 1268	0.012	U P	0.012	0.0060

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	121		46-161
877-09-8	Tetrachloro-m-xylene	38	*	41-146

for 4/20/2023

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-277930-1

SDG No.: _____

Client Sample ID: OUX-MWX_20230404 Lab Sample ID: 460-277930-4

Matrix: Water OU2-MWL-20230404 Lab File ID: 14PCBL230102005.010.D

Analysis Method: 8082A Date Collected: 04/04/2023 00:00

Extraction Method: 3510C Date Extracted: 04/19/2023 09:30

Sample wt/vol: 838.7(mL) Date Analyzed: 04/19/2023 18:53

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB CLP1 ID: 0.32 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 366276 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.012	U	0.012	0.0095
11104-28-2	Aroclor 1221	0.012	U	0.012	0.0095
11141-16-5	Aroclor 1232	0.012	U	0.012	0.0095
53469-21-9	Aroclor 1242	0.012	U	0.012	0.0095
12672-29-6	Aroclor 1248	0.012	U	0.012	0.0095
11097-69-1	Aroclor 1254	0.012	U	0.012	0.0060
11096-82-5	Aroclor 1260	0.012	U	0.012	0.0060
37324-23-5	Aroclor 1262	0.012	U	0.012	0.0060
11100-14-4	Aroclor 1268	0.012	U	0.012	0.0060

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	103		46-161
877-09-8	Tetrachloro-m-xylene	57		41-146

YAN 4/28/2023

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 10:05

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.1	2.0	1.2	ug/L			1	6020B
7440-39-3	Barium	183	4.0	0.93	ug/L			1	6020B
7440-41-7	Beryllium	0.80	0.80	0.12	ug/L	U		1	6020B
7440-43-9	Cadmium	2.0	2.0	0.38	ug/L	U		1	6020B
7440-47-3	Chromium	4.0	4.0	1.7	ug/L	U		1	6020B
7440-50-8	Copper	1.0	4.0	0.51	ug/L	J		1	6020B
7439-92-1	Lead	1.2	1.2	0.30	ug/L	U		1	6020B
7439-96-5	Manganese	8310	8.0	0.60	ug/L			1	6020B
7440-02-0	Nickel	1.9	4.0	1.4	ug/L	J		1	6020B
7782-49-2	Selenium	0.39	2.5	0.34	ug/L	J		1	6020B
7440-22-4	Silver	2.0	2.0	1.3	ug/L	U		1	6020B
7440-66-6	Zinc	16.0 3.9	16.0	2.2	ug/L	J B		1	6020B

Jan 4/28/2023

IA-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OU2-MW1_20230404

Lab Sample ID: 460-277930-1

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 10:05

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: OU3-MW2_20230404

Lab Sample ID: 460-277930-2

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 14:50

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.0	2.0	1.2	ug/L	U		1	6020B
7440-39-3	Barium	1050	4.0	0.93	ug/L			1	6020B
7440-41-7	Beryllium	0.80	0.80	0.12	ug/L	U		1	6020B
7440-43-9	Cadmium	1.7	2.0	0.38	ug/L	J		1	6020B
7440-47-3	Chromium	4.0	4.0	1.7	ug/L	U		1	6020B
7440-50-8	Copper	4.2	4.0	0.51	ug/L			1	6020B
7439-92-1	Lead	1.2	1.2	0.30	ug/L	U		1	6020B
7439-96-5	Manganese	47400	80.0	6.0	ug/L			10	6020B
7440-02-0	Nickel	17.9	4.0	1.4	ug/L			1	6020B
7782-49-2	Selenium	2.5	2.5	0.34	ug/L	U		1	6020B
7440-22-4	Silver	2.0	2.0	1.3	ug/L	U		1	6020B
7440-66-6	Zinc	16.0 15.9	16.0	2.2	ug/L	J	U	1	6020B

for 4/28/2023

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OU3-MW2_20230404

Lab Sample ID: 460-277930-2

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 14:50

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 10:10

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.0	2.0	1.2	ug/L	U		1	6020B
7440-39-3	Barium	4.0	4.0	0.93	ug/L	U		1	6020B
7440-41-7	Beryllium	0.80	0.80	0.12	ug/L	U		1	6020B
7440-43-9	Cadmium	2.0	2.0	0.38	ug/L	U		1	6020B
7440-47-3	Chromium	4.0	4.0	1.7	ug/L	U		1	6020B
7440-50-8	Copper	4.0	4.0	0.51	ug/L	U		1	6020B
7439-92-1	Lead	1.2	1.2	0.30	ug/L	U		1	6020B
7439-96-5	Manganese	2.2	8.0	0.60	ug/L	J		1	6020B
7440-02-0	Nickel	4.0	4.0	1.4	ug/L	U		1	6020B
7782-49-2	Selenium	2.5	2.5	0.34	ug/L	U		1	6020B
7440-22-4	Silver	2.0	2.0	1.3	ug/L	U		1	6020B
7440-66-6	Zinc	16.0 2.5	16.0	2.2	ug/L	U B U		1	6020B

John 4/21/2023

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB_20230404

Lab Sample ID: 460-277930-3

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.: _____

Matrix: Water

Date Sampled: 04/04/2023 10:10

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	7470A

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Lab Name: Eurofins Edison *OUL-MWI-20230404* Job No.: 460-277930-1

SDG ID.:

Matrix: Water

Date Sampled: 04/04/2023 00:00

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.5	2.0	1.2	ug/L			1	6020B
7440-39-3	Barium	189	4.0	0.93	ug/L			1	6020B
7440-41-7	Beryllium	0.80	0.80	0.12	ug/L	U		1	6020B
7440-43-9	Cadmium	2.0	2.0	0.38	ug/L	U		1	6020B
7440-47-3	Chromium	4.0	4.0	1.7	ug/L	U		1	6020B
7440-50-8	Copper	1.1	4.0	0.51	ug/L	J		1	6020B
7439-92-1	Lead	1.2	1.2	0.30	ug/L	U		1	6020B
7439-96-5	Manganese	8700	8.0	0.60	ug/L			1	6020B
7440-02-0	Nickel	1.6	4.0	1.4	ug/L	J		1	6020B
7782-49-2	Selenium	2.5	2.5	0.34	ug/L	U		1	6020B
7440-22-4	Silver	2.0	2.0	1.3	ug/L	U		1	6020B
7440-66-6	Zinc	<i>16.0</i> 3.6	16.0	2.2	ug/L	J	<i>B U</i>	1	6020B

For 4/28/2023

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OUX-MWX_20230404

Lab Sample ID: 460-277930-4

Lab Name: Eurofins Edison

Job No.: 460-277930-1

SDG ID.:

Matrix: Water

Date Sampled: 04/04/2023 00:00

Reporting Basis: WET

Date Received: 04/05/2023 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	7470A

APPENDIX C
INSTITUTIONAL CONTROL AND ENGINEERING CONTROL (IC-EC) CERTIFICATION FORM



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.	C353014		
Site Name Adelaar			
Site Address: Concord Road		Zip Code: 12751	
City/Town: Kiamesha Lake			
County: Sullivan			
Site Acreage: 12.534			
Reporting Period: April 28, 2022 to April 28, 2023			
		YES	NO
1.	Is the information above correct?	X	<input type="checkbox"/>
	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?	<input type="checkbox"/>	X
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	X
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	X
	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?	<input type="checkbox"/>	X

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below?	X	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	X	<input type="checkbox"/>
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	

Box 2A

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

YES NO

 X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

X

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C353014

Box 3**Description of Institutional Controls**

Parcel

Owner

Institutional Control

15-1-14.4

EPR Concord II, L.P.

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

15-1-50.1

EPR Concord II, L.P.

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

15-1-50.2

EPR Concord II, L.P.

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and

permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

15-1-14.4

Monitoring Wells

15-1-50.1

Cover System
Monitoring Wells

A cover system is in place at OU-2 over the consolidated landfill area in the southern portion of the site. The cover system consists of a minimum 12 inches of clean soil placed over an orange demarcation layer. The cover system is in place only on a portion of tax lot 15-1-50.1.

15-1-50.2

Monitoring Wells

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 complete.

YES NO
X

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
X

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. C353014

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 Craig L. Evans at 909 Walnut, Suite 200, Kansas City, MO 64106,
print name print business address

am certifying as Vice President of EPR TRS Holdings, Inc. (Owner or Remedial Party)
general partner of EPR Concord II, L.P.

for the Site named in the Site Details Section of this form.



Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

June 12, 2023
Date

EC CERTIFICATIONS

Box 7

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 Craig L. Evans at 909 Walnut, Suite 200, Kansas City, MO 64106,
print name print business address

am certifying as a Vice President of EPR TRS Holdings, Inc.
general partner of EPR Concord II, L.P. (Owner or Remedial Party)



Signature of , for the Owner or Remedial Party,
Rendering Certification

Stamp
(Required for PE)

June 12, 2023
Date