

January 16, 2025

Mr. Christopher Allan
NYS Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor
Albany, New York, 12233-7017

**Re: Quarterly Monitoring and Engineering Control System Inspection Report – 2024 4th Quarter
Newtown Creek Bud Site (NCBS) – North Block
2-21 Malt Drive, Long Island City, New York
BCP Site ID: C241248**

Dear Mr. Allan:

This Quarterly Monitoring and Engineering Control System Inspection Report has been prepared by AKRF, Inc. (AKRF), on behalf of Bud North LLC, to summarize routine post-remedial groundwater monitoring and sampling activities, and Sub-Slab Depressurization System (SSDS) and Soil Vapor Extraction System (SVES) inspections performed at the NCBS – North Block Brownfield Cleanup Program (BCP) Site located at 2-21 Malt Drive, Long Island City, New York (the “Site”, BCP Site No. C241248). The Site, which is also referred to as Block 11, Lot 1 on the New York City Tax Map, is an approximately 130,915-square-foot parcel located in the Hunter’s Point South section of Long Island City, New York. Currently, the Site consists of a multi-story mixed use commercial and residential building that is under construction. A Site location map is provided as Figure 1, and a Site plan is provided as Figure 2.

The Volunteer entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January 2022, to investigate and remediate the Site. The Site was remediated to Restricted Residential Use, and the SSDS and SVES began operation on September 27, 2023. AKRF’s Final Engineering Report (FER) and Site Management Plan (SMP) were approved by NYSDEC, resulting in the issuance of a Certificate of Completion (CoC) on December 29, 2023.

Ongoing Site management activities are being performed in accordance with the SMP. Post-remediation monitoring and inspection activities conducted at the Site for the fourth quarter of 2024 included the following activities as described in this letter report:

- One quarterly groundwater sampling event (October 18, 2024);
- One quarterly detailed routine inspection (October 17, 2024) of the operating SSDS/SVES; and
- One Division of Air Resources (DAR)-1 Analysis of the SVES Effluent (October 18, 2024).

The next quarterly inspection of the SSDS and SVES and groundwater monitoring will be performed in the first quarter of 2025, which will be documented in the Quarterly Report for the first quarter of 2025.

Background

The Remedial Investigation (RI) determined that the nature and extent of contaminated soil, groundwater, and soil vapor present at the Site consisted of the following contaminants: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, metals, and per- and poly-fluoroalkyl substances (PFAS) in soil/fill; chlorinated solvent and petroleum-related VOCs and dichlorodifluoromethane (Freon-12) in soil vapor; and petroleum-related VOCs, Freon-12, polyaromatic hydrocarbons (PAHs), PCBs, metals, and PFAS in groundwater. A figure presenting

groundwater sample results from the RI is included for comparison to this quarter's sampling results as Figure 3.

The remedial action included excavation and off-site disposal of source material in soil and implementation of a groundwater treatment program consisting of mechanical mixing of Regenesi[®] ORC Advanced[®] and PersulfOx[®] in the southwestern portion of the Site. Additionally, engineering controls were constructed at the Site, including installation of an SSDS, SVES, and a site-wide cover system. On November 28, 2022 and December 1, 2022, post-remedial groundwater samples were collected from two post-remedial groundwater monitoring wells installed within the Site boundary (MW-01, MW-02, and MW-03) and submitted for laboratory analysis of VOCs. The post-remedial groundwater samples collected from the Site indicated that petroleum-related VOCs, including benzene, ethylbenzene, xylenes, toluene (collectively referred to as BTEX), and 1,2,4-trimethylbenzene were still present in groundwater at the Site above the Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values (AWQSGVs). A figure presenting the post-remedial groundwater sample results is included as Figure 4.

Quarterly Groundwater Monitoring

This quarterly monitoring report comprises a summary of the findings from the monitoring, sampling, and associated analytical reports and field sampling logs during the fourth quarter of 2024. In accordance with SMP, further assessment (and recommendations, if necessary) will be provided in the annual Periodic Review Report (PRR).

Field Methods

On October 18, 2024, groundwater samples were collected from the three on-site monitoring wells (MW-01, MW-02, and MW-03) in accordance with United States Environmental Protection Agency (EPA) low flow sampling methodology and the Site-specific Quality Assurance and Project Plan (QAPP) and Field Sampling Plan (FSP), which are included as Appendix H of the SMP. Matrix spike/matrix spike duplicates (MS/MSD) samples and a blind duplicate sample were taken and analyzed from well MW-01 and MW-02 respectively. Groundwater samples were collected using dedicated and decontaminated sampling equipment.

Prior to collecting the groundwater samples, the depth to groundwater and the total well depth was measured at each of the groundwater monitoring well using an oil/water interface probe attached to a measuring tape accurate to 0.01 foot. A sulfur-(rotten egg)-like odor was observed in two of the wells (MW-01 and MW-02). All purge water from the groundwater monitoring wells was containerized in a labeled, NYSDOT-approved 55-gallon drum for off-site disposal at a permitted facility. Groundwater sampling logs are provided in Attachment A.

The groundwater samples were collected and submitted to Pace Analytical of Westborough, Massachusetts (Pace), a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. In accordance with the SMP, the groundwater samples were analyzed for VOCs by EPA Method 8260D, and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Oil Range Organics (ORO). At the request of the NYSDEC and the United States Environmental Protection Agency (EPA), the groundwater samples were also analyzed for Extractable Petroleum Hydrocarbons (EPH) [C19-C36] via the MADEP Method, Semivolatile Organic Compounds (SVOCs) by EPA Method 8270E, Target Compound List (TCL) Pesticides by EPA Method 8081B, Total Cyanide, TCL Polychlorinated biphenyls (PCBs) by EPA Method 8082A, Dissolved and Total Target Analyte List (TAL) Metals, Hexavalent Chromium by EPA Method 7196 and Per- and polyfluoroalkyl substances (PFAS) by EPA Method 1663 with Category B deliverables. A trip blank sample and blind duplicate sample were also sent with the samples for VOC analysis.

Results

VOCs

The petroleum-related VOC, benzene, was detected in groundwater samples MW-01 and MW-02 (plus the blind duplicate sample) at estimated concentrations of 4.3 µg/L and 2.3 µg/L, respectively, above the Ambient Water Quality Standard and Guidance Value (AWQSGV) of 1 µg/L.

TPH DRO & ORO

TPH DRO and ORO were detected in all groundwater samples collected. TPH DRO was detected at concentrations between 427 µg/L (MW-02) and 115 µg/L (MW-03), and TPH ORO was concentrations between 72.4 µg/L (MW-02) and 22.6 µg/L (MW-03).

SVOCs

A total of 25 SVOCs were detected in one or more of the monitoring wells. Eight polycyclic aromatic hydrocarbons (PAHs), a class of SVOCs associated with petroleum products and combustion engines, were detected at concentrations above the AWQSGVs in one or more of the three samples. Benzo(b)fluoranthene was detected at concentrations above its AWQSGV in all three samples. Benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-c,d)pyrene were detected above the AWQSGVs in samples collected from MW-01 and MW-02. Hexachlorobenzene and naphthalene were detected above the AWQSGVs in MW-01.

Metals

In total metals analysis, 19 metals were detected at variable concentrations in one or more of the monitoring wells. Six metals (cyanide, iron, lead, magnesium, manganese, and sodium) were detected in one or more of the wells at concentrations above the AWQSGVs.

In dissolved metals analysis, 17 metals were detected at variable concentrations in one or more of the monitoring wells. Four metals (iron, magnesium, manganese, and sodium) were detected at concentrations above the AWQSGVs in one or more of the monitoring wells.

PCBs, Pesticides, and EPH

PCBs, pesticides, and EPH were not detected in the groundwater samples collected from the monitoring wells.

PFAS

The compounds perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected at concentrations above the AWQSGVs in all three wells. PFOS was detected at concentrations between 2.83 nanograms per liter (ng/l) in MW-03 and 18.7 ng/l in the blind duplicate sample collected from monitoring well MW-02, and PFOA was detected at concentrations between 46.7 ng/l in MW-01 and 71.8 ng/l in MW-03.

A summary of the fourth quarter 2024 groundwater sample results is provided in Tables 1A through 1G with concentrations of VOCs and TPH over time provided in Table 2. A summary of exceedances is presented in Figure 4. The complete data analytical report and Data Usability Summary Report (DUSR) are provided in Attachment B.

Third-Party DUSR Results

Third-party data validation was performed by Jeri Rossi of Cranford, NJ, and a DUSR was prepared (Attachment B), which confirmed usability of the data with additional qualifiers. Validated electronic data deliverables (EDDs) will be submitted to NYSDEC via the Environmental Quality Information System (EQuIS™).

SSDS Inspection

The summary of the inspection conducted in the Fourth quarter of 2024 (on October 17, 2024), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SSDS Monitoring Inspection Form included in Attachment C. The layout of the SSDS is shown on Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Quarterly Monitoring Inspection of the SSDS:

- The SSDS blower was operating and air was discharging through the exhaust piping;
- Confirmation that the pressure and air flow rate gauges were clean and within normal ranges;
- Confirmation that the blower effluent photoionization detector readings and temperatures were within acceptable ranges;
- The concrete floor slab overlying the SSDS piping was intact;
- Confirmation that the exterior control panel was clean; and
- Confirmation of the structural integrity of exhaust stack on the roof of the Site building.

The induced vacuum levels collected from the SSDS monitoring points (MP-01 through MP-14) ranged from 1.04 to 1.22 inches of water (in H₂O) as summarized in Table I. The applied vacuum in SSDS points (SSDS-N1 through SSDS-N16) ranged from 1.4 to 3.0 in H₂O, and the air flow rate ranged from 20 to 34 standard cubic feet per minute (SCFM).

Table I
SSDS Monitoring Point Vacuum Readings – October 2024

Monitoring Point	Vacuum (in. H ₂ O)
MP-01	1.14
MP-02	1.22
MP-03	1.18
MP-04	1.06
MP-05	Covered
MP-06	1.13
MP-07	1.06
MP-08	Covered
MP-09	1.04
MP-10	1.13
MP-11	1.14
MP-12	1.18
MP-13	1.11
MP-14	1.10

SVES Inspection

The summary of the inspection conducted in the fourth quarter of 2024 (on October 17 2024), is provided in the sections below, and all observations and readings collected during the inspection were recorded on the SVES Monthly System Inspection Form included in Attachment C, and the system layout is presented in Figure 5. The following items were inspected and noted to conform to the design standards or did not require additional maintenance during the completion of the Monthly Inspection of the SVES:

- The system was cycled on this month;
- That condensate in the knockout tank gauge is below the low-high float sensor;
- The SVES blower and transfer pump are currently operating properly; and
- Confirmation that the vacuum and air flow gauges were clean and within normal ranges.

The vacuum level of the SVE monitoring points (SVMP-01 through SVMP-06) ranged from 4.5 to 2.3 in H₂O as summarized in Table II, and the well air flow rates for SVE-01 through SVE-05 ranged from 20 to 36 CFM.

Table II
SVE Monitoring Point Vacuum Readings – October 2024

Monitoring Point	Vacuum (in. H ₂ O)
SVMP-1	1.18
SVMP-2	1.34
SVMP-3	1.13
SVMP-4	1.04
SVMP-5	1.29
SVMP-6	1.14

Soil Vapor Extraction System Influent/Intermediate/Effluent Sampling

Confirmatory influent/intermediate/effluent vapor sampling was performed on October 18, 2024 to assess the VOC concentrations in extracted soil vapor from the SVES treatment area, and the condition and lifespan of the granular activated carbon (GAC) units. Influent (INF_20241018), intermediate (INT-202401018), and effluent (EFF-20241018) vapor samples were collected from the piped in series GAC vessels using 1-Liter Tedlar[®] bags in accordance with the SMP QAPP, and were submitted under proper chain-of custody protocol to Pace and analyzed for VOCs by United State Environmental Protection Agency Method TO-15. The vapor sample analytical results are included in Table 3, with concentrations over time provided in Table 4. The laboratory data report and DUSR are included Attachment B. A summary of vapor concentrations is presented in Table III below:

Table III
Soil Vapor Concentrations –October 2024

Sample ID	SVE-INF_20241018	SVE-INT_20241018	SVE-EFF_20241018
Compound			
Acetone	35.2	30.6	34.2
Dichlorodifluoromethane	52.4	51.4	53.9
Ethanol	ND	ND	ND
Ethylbenzene	4.52	1.48	2
Isopropanol	191	212	270
M,P-Xylenes	20.6	7.34	8.9
O-Xylene (1,2-Dimethylbenzene)	6.56	2.35	2.59
Tetrachloroethylene (PCE)	2.02	ND	ND
Tetrahydrofuran	ND	4.54	3.19
Toluene	1.39	0.938	1.37
Trichlorofluoromethane (Freon-12)	248	261	261

Notes:

Compounds are reported in µg/m³.

ND = Not Detected

Third-Party DUSR Results

Third-party data validation was performed by Jeri Rossi of Cranford, NJ, and a DUSR was prepared (Attachment B), which confirmed usability of the data with additional qualifiers. Validated electronic data deliverables (EDDs) will be submitted to NYSDEC via the Environmental Quality Information System (EQuIST™).

Comparison to DAR Guideline Concentrations

The detected influent and effluent VOC concentrations were compared to the NYSDEC Division of Air Resources (DAR) publication “Air Guide-1 (AG-1): Annual Guideline Concentrations (AGC)/Short-term Guideline Concentrations (SGC) Tables”, updated October 18, 2010.

A screening level air dispersion modeling analysis was performed to determine whether these compounds would exceed the guideline concentrations at nearby sensitive receptors. The modeling analysis is provided in Attachment D. The analysis was performed using the NYSDEC DAR-1 Air Guide-1 Policy (Policy DAR-1: Guidelines for the Control of Toxic Ambient Air Contaminants, November 12, 1997), which simulates the atmospheric processes that disperse pollutants from an emissions source to predict concentrations at selected downwind receptor locations. The procedures in the Policy DAR-1 are used to calculate conservative, worst-case annual and short-term concentrations based on the laboratory analytical results and exhaust stack parameters to compare against the DAR-1 SGCs and AGCs.

The influent and effluent samples from the GAC units was used assess its impacts on the closest sensitive receptors, the public sidewalk north of the effluent stacks, while accounting for atmospheric dispersion. The model results indicated that no VOCs detected in the influent and effluent samples would exceed their respective SGCs or AGCs at the closest sensitive receptors. The results are summarized in Attachment D.

Conclusions

Groundwater Monitoring

The groundwater monitoring and sampling results indicated that while benzene is still present in groundwater above AWQSGVs in groundwater in the southwestern portion of the Site (MW-01 and MW-2), there was a significant reduction of petroleum VOCs in groundwater from post-remediation to present-day. No VOCs were detected in MW-03. TPH- DRO and ORO were also detected at variable concentrations in groundwater at all three monitoring well locations (including the upgradient monitoring well location), suggesting the detections may be at least partially due to regional groundwater quality. The favorable (low) post-remedial groundwater results indicate that a reduction in the frequency and duration of the required groundwater monitoring program as per the SMP is warranted.

As requested by NYSDEC EPA, groundwater samples were also collected and analyzed for EPH, SVOCs, TCL pesticides, total cyanide, TCL PCBs, dissolved and total TAL metals, hexavalent chromium, and PFAS. Several SVOCs, total and dissolved metals, and PFOA and PFOS were detected in one or more of the groundwater samples at concentrations above the AWQSGVs. The detected compounds are commonly found in historic fill and/or groundwater in New York City, and were likely the result of regional groundwater conditions and not related to any on-site sources.

SSDS Inspection

The vacuum and flow rate readings collected at the SSDS the monitoring points and manifolds indicated that one of the riser legs is operating slightly below the expected rate, and five legs are operating above the expected rate. Overall, the system is operating properly at the Site.

SVES Inspection and Soil Vapor Effluent Sampling

The vacuum and flow rate readings collected at the SVES the monitoring points and manifold indicated that the post-blower pressure slightly exceeds the expected level, but overall system is operating properly at the Site. The system sampling data indicate that the influent and effluent vapor concentrations have rebounded slightly since the Quarter 1 2024 sampling; however, concentrations remain low. The results of the DAR-1 analysis indicated that no VOCs detected in the influent and effluent samples would exceed

their respective SGCs or AGCs at the closest sensitive receptors. Moreover, the DAR analysis confirmed that the influent and effluent concentrations remain low, and the modeled concentrations (for both the influent and effluent at the nearest receptor range between 0 percent and less than 2 percent of the SGCs and AGCs. Therefore, treatment of the SVE vapors is no longer warranted, and the mass recovered from the SVE system is reaching asymptotic levels.

Based on these results, AKRF respectfully requests the following:

1. That the Volunteer be permitted to remove the carbon drums from the SVE system and begin operating without carbon filtration; and
2. That the Volunteer be permitted to begin cycling the SVE system on a monthly basis with the goal of terminating operation by the end of 2025.

Scheduled Activities

In accordance with the SMP, the following is required following approval of the SMP:

- Eight post-remedial quarterly groundwater monitoring and sampling events in the first two years after SMP approval,
- Ongoing quarterly SSDS and SVES routine operations inspections, and
- Ongoing annual SSDS and SVES detailed operations inspections.

The next quarterly groundwater sampling event, SSDS inspection, and SVES inspection will be performed during the first quarter of 2025 (January of 2025).

If you have any questions regarding the information presented herein, please contact Patrick Diggins at (914) 922-2784 or Marc Godick at (914) 922-2356.

Sincerely,
AKRF, Inc.



Marc S. Godick, LEP
Senior Vice President



J. Patrick Diggins
Senior Technical Director

In-Text Table:	Table I	SSDS Monitoring Point Vacuum Readings – October 2024
	Table II	SVE Monitoring Point Vacuum Readings – October 2024
	Table III	Soil Vapor Concentrations – October 2024
Attachments:		
	Table 1	Post-Remedial Groundwater Concentrations – October 2024
	Table 2	Post-Remedial Groundwater Concentrations Over Time
	Table 3	Post-Remedial Soil Vapor Concentrations – October 2024
	Table 4	Post-Remedial Soil Vapor Concentrations Over Time
	Figure 1	BCP Site Location
	Figure 2	BCP Site Plan
	Figure 3	Remedial Investigation Groundwater Sample Results
	Figure 4	Post-Remedial Groundwater Sample Results – October 2024
	Figure 5	SSDS and SVES Layout
	Attachment A	Groundwater Sampling Logs
	Attachment B	Laboratory Analytical Reports and DUSRs
	Attachment C	SSDS and SVES Inspection Logs
	Attachment D	DAR-1 Analysis Summary

cc (electronic copy only):

Andre Obligado, Jane O’Connell – NYSDEC

Bruce Weill, Nicholas Vasta, Frank Vasta, George Georgioudakis – Bud North LLC

Rebecca Kinal, P.E. – AKRF

TABLES

Table 1A
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
VOCs and TPH

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	FB_20241018 L2460992-04 10/18/2024 µg/L 1	TB_20241018 L2460992-06 10/18/2024 µg/L 1
Volatile Organic Compounds (VOCs)	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	2 U	2 U	2 U	2 U	2 U
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U
Acetone	50	5.7 J	1.7 J	2.6 J	1.8 J	5 U
Acrolein	5	NR	NR	NR	NR	NR
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U
Benzene	1	4.3 J	2.3 J	1.6 J	0.5 UJ	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	2.4 J	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	NR	NR	NR	NR	NR
Cymene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U
Dichloroethylenes	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	1.1 J	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	5	1.1 J	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	NS	NR	NR	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	NR	NR	NR	NR	NR
Methylene Chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	0.97 J	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	NR	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	0.93 J	0.77 J	2.5 UJ	2.5 UJ	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2.1 J	2.5 U	2.5 U	2.5 U	2.5 U
Total Petroleum Hydrocarbons (TPH)	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS	303	427	294	115	28.3 U
TPH - Oil Range Organics	NS	28.8	72.4	42.9	22.6	10.4 U

Table 1B
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Semivolatile Organic Compounds (SVOCs)

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	FB_20241018 L2460992-04 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q
1,2,4,5-Tetrachlorobenzene	5	10 UJ	10 UJ	10 UJ	10 UJ
2,4,5-Trichlorophenol	NS	5 UJ	5 UJ	5 UJ	5 UJ
2,4,6-Trichlorophenol	NS	5 UJ	5 UJ	5 UJ	5 UJ
2,4-Dichlorophenol	5	5 UJ	5 UJ	5 UJ	5 UJ
2,4-Dimethylphenol	50	5 UJ	5 UJ	5 UJ	5 UJ
2,4-Dinitrophenol	10	20 UJ	20 UJ	20 UJ	20 UJ
2,4-Dinitrotoluene	5	5 UJ	5 UJ	5 UJ	5 UJ
2,6-Dinitrotoluene	5	5 UJ	5 UJ	5 UJ	5 UJ
2-Chloronaphthalene	10	0.03 J	0.2 U	0.2 U	0.2 U
2-Chlorophenol	NS	2 UJ	2 UJ	2 UJ	2 UJ
2-Methylnaphthalene	NS	2.2	0.03 J	1.6	0.1 U
2-Methylphenol (O-Cresol)	NS	5 UJ	5 UJ	5 UJ	5 UJ
2-Nitroaniline	5	5 UJ	5 UJ	5 UJ	5 UJ
2-Nitrophenol	NS	10 UJ	10 UJ	10 UJ	10 UJ
3- And 4- Methylphenol (Total)	NS	1.6 J	5 UJ	5 UJ	5 UJ
3,3'-Dichlorobenzidine	5	5 UJ	5 UJ	5 UJ	5 UJ
3-Nitroaniline	5	5 UJ	5 UJ	5 UJ	5 UJ
4,6-Dinitro-2-Methylphenol	NS	10 UJ	10 UJ	10 UJ	10 UJ
4-Bromophenyl Phenyl Ether	NS	2 UJ	2 UJ	2 UJ	2 UJ
4-Chloro-3-Methylphenol	NS	2 UJ	2 UJ	2 UJ	2 UJ
4-Chloroaniline	5	5 UJ	5 UJ	5 UJ	5 UJ
4-Chlorophenyl Phenyl Ether	NS	2 UJ	2 UJ	2 UJ	2 UJ
4-Nitroaniline	5	5 UJ	5 UJ	5 UJ	5 UJ
4-Nitrophenol	NS	10 UJ	10 UJ	10 UJ	10 UJ
Acenaphthene	20	5.5	0.1 U	3.9	0.1 U
Acenaphthylene	NS	0.11 J	0.1 U	0.58	0.1 U
Acetophenone	NS	5 UJ	5 UJ	5 UJ	5 UJ
Anthracene	50	2.8	0.04 J	3.1	0.1 U
Benzo(a)Anthracene	0.002	0.27	0.1 U	0.17	0.1 U
Benzo(a)Pyrene	ND	0.15 J	0.1 UJ	0.04 J	0.1 U
Benzo(b)Fluoranthene	0.002	0.19 J	0.05 J	0.06 J	0.1 U
Benzo(g,h,i)Perylene	NS	0.11 J	0.1 U	0.1 U	0.1 U
Benzo(k)Fluoranthene	0.002	0.06 J	0.1 U	0.1 U	0.1 U
Benzoic Acid	NS	50 UJ	50 UJ	50 UJ	14 J
Benzyl Alcohol	NS	0.85 J	2 UJ	2 UJ	2 UJ
Benzyl Butyl Phthalate	50	5 UJ	5 UJ	5 UJ	5 UJ
Biphenyl (Diphenyl)	5	0.8 J	2 UJ	0.66 J	2 UJ
Bis(2-Chloroethoxy) Methane	5	5 UJ	5 UJ	5 UJ	5 UJ
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	2 UJ	2 UJ	2 UJ	2 UJ
Bis(2-Chloroisopropyl) Ether	5	2 UJ	2 UJ	2 UJ	2 UJ
Bis(2-Ethylhexyl) Phthalate	5	3 UJ	3 UJ	3 UJ	3 UJ
Carbazole	NS	6.7	2 UJ	5.7	2 UJ
Chrysene	0.002	0.17 J	0.1 UJ	0.09 J	0.1 U
Dibenz(a,h)Anthracene	NS	0.03 J	0.1 U	0.05 J	0.1 U
Dibenzofuran	NS	4.3	2 UJ	5.9	2 UJ
Diethyl Phthalate	50	5 UJ	5 UJ	5 UJ	5 UJ
Dimethyl Phthalate	50	5 UJ	5 UJ	5 UJ	5 UJ
Di-N-Butyl Phthalate	50	5 UJ	5 UJ	5 UJ	5 UJ
Di-N-Octylphthalate	50	5 UJ	5 UJ	5 UJ	5 UJ
Fluoranthene	50	4.3 J	0.1 J	3.7 J	0.1 U
Fluorene	50	8	0.05 J	8.4	0.1 U
Hexachlorobenzene	0.04	0.05 J	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	20 UJ	20 UJ	20 UJ	20 UJ
Hexachloroethane	5	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-c,d)Pyrene	0.002	0.11	0.1 U	0.1 U	0.1 U
Isophorone	50	5 UJ	5 UJ	5 UJ	5 UJ
Naphthalene	10	18 L	0.08 J	6.4	0.1 U
Nitrobenzene	0.4	2 UJ	2 UJ	2 UJ	2 UJ
N-Nitrosodi-N-Propylamine	NS	5 UJ	5 UJ	5 UJ	5 UJ
N-Nitrosodiphenylamine	50	2 UJ	2 UJ	2 UJ	2 UJ
Pentachlorophenol	NS	0.8 UJ	0.8 U	0.8 U	0.8 U
Phenanthrene	50	21	0.07 J	23	0.1 U
Phenol	1	0.38 J	5 UJ	5 UJ	2.2 J
Pyrene	50	2.9	0.07 J	2.4	0.1 U

Table 1C
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Total Metals

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-01_20241018 L2460992-03 10/18/2024 µg/L 2	MW-01_20241018 L2460992-03 10/18/2024 µg/L 10	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	226	NR	NR	1,020	95.1
Antimony	3	16.2	NR	NR	4 U	2.25 J
Arsenic	25	11.19	NR	NR	3.54	5.87
Barium	1,000	89.11	NR	NR	55.26	46.02
Beryllium	3	0.5 U	NR	NR	0.5 U	0.5 U
Cadmium	5	0.2 U	NR	NR	0.21	0.2 U
Calcium	NS	169,000	NR	NR	253,000	147,000
Chromium, Total	50	1.11 H	NR	NR	30.24	0.81 J
Cobalt	NS	1.38 H	NR	NR	29.62 H	1.2
Copper	200	2.25 H	NR	NR	22.58 H	1.38 H
Cyanide	200	NR	714 H	NR	203	NR
Iron	300	774	NR	NR	80,300	668
Lead	25	9.45 H	NR	NR	41.48 H	1.37
Magnesium	35,000	44,700	NR	NR	48,600	18,400
Manganese	300	136.4	NR	NR	1,828	153.7
Mercury	0.7	0.2 U	NR	NR	0.2 U	0.2 U
Nickel	100	6.24 H	NR	NR	25.92 H	4.73 H
Potassium	NS	NR	NR	58,200	27,200	25,900
Selenium	10	5 UJ	NR	NR	5 U	5 U
Silver	50	0.4 U	NR	NR	0.4 U	0.4 U
Sodium	20,000	300,000	NR	NR	456,000	146,000
Thallium	0.5	1 U	NR	NR	1 U	1 U
Vanadium	NS	8.59	NR	NR	4.8 J	5.41
Zinc	2,000	6.91 J	NR	NR	57.68	10 U

Table 1C
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Total Metals

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-0X_20241018 L2460992-05 10/18/2024 µg/L 2	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 2	FB_20241018 L2460992-04 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	NR	283	NR	10 U
Antimony	3	NR	3.55 J	NR	4 U
Arsenic	25	NR	7.13	NR	0.5 U
Barium	1,000	NR	43.67	NR	0.45 J
Beryllium	3	NR	0.5 U	NR	0.5 U
Cadmium	5	NR	0.2 U	NR	0.2 U
Calcium	NS	NR	144,000	NR	100 U
Chromium, Total	50	NR	1.97 H	NR	1 U
Cobalt	NS	NR	1.42 H	NR	0.5 U
Copper	200	NR	2.94 H	NR	1 U
Cyanide	200	561	NR	835	5 U
Iron	300	NR	870	NR	50 U
Lead	25	NR	4.2 H	NR	1 U
Magnesium	35,000	NR	16,400	NR	70 U
Manganese	300	NR	115.2	NR	1 U
Mercury	0.7	NR	0.2 U	NR	0.2 U
Nickel	100	NR	4.69 H	NR	2 U
Potassium	NS	NR	26,600	NR	100 U
Selenium	10	NR	5 U	NR	5 U
Silver	50	NR	0.4 U	NR	0.4 U
Sodium	20,000	NR	174,000	NR	100 U
Thallium	0.5	NR	1 U	NR	1 U
Vanadium	NS	NR	6.07	NR	5 U
Zinc	2,000	NR	10.05 H	NR	10 U

Table 1D
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Dissolved Metals

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-01_20241018 L2460992-03 10/18/2024 µg/L 10	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	FB_20241018 L2460992-04 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aluminum	NS	9.66 J	NR	10 U	15	11.9	10 U
Antimony	3	15.91	NR	0.53 J	2.27 J	2.01 J	4 U
Arsenic	25	11.16	NR	0.69 JH	5.66	7.13	0.5 U
Barium	1,000	76.69	NR	33.06	41.58	38.62	0.5 U
Beryllium	3	0.5 U	NR	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	5	0.2 U	NR	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	NS	157,000	NR	241,000	146,000	146,000	43.4 J
Chromium, Total	50	0.41 J	NR	1.3 H	0.26 J	0.29 J	1 U
Cobalt	NS	1.13 H	NR	25.68	1.17 H	1.34 H	0.5 U
Copper	200	1 U	NR	1 U	0.59 J	0.71 J	1 U
Iron	300	340	NR	50,500	262	343	50 U
Lead	25	0.38 J	NR	1 U	1 U	1 U	1 U
Magnesium	35,000	41,200	NR	45,800	17,200	15,600	70 U
Manganese	300	117.4	NR	1,705	138.6	96.7	1 U
Mercury	0.7	0.2 U	NR	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	4.76 H	NR	10.58 H	4.2 H	4.02 H	2 U
Potassium	NS	NR	53,900	25,600	24,500	25,500	100 U
Selenium	10	5 U	NR	5 U	5 U	5 U	5 U
Silver	50	0.4 U	NR	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	20,000	278,000	NR	430,000	140,000	171,000	100 U
Thallium	0.5	1 U	NR	1 U	1 U	1 U	1 U
Vanadium	NS	6.82	NR	5 U	4.87 J	5.19	5 U
Zinc	2,000	10 U	NR	20.72 H	10 U	10 U	10 U

Table 1E
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Polychlorinated Biphenyls (PCBs)

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	FB_20241018 L2460992-04 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
PCB-1016 (Aroclor 1016)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1221 (Aroclor 1221)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1232 (Aroclor 1232)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1242 (Aroclor 1242)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1248 (Aroclor 1248)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1254 (Aroclor 1254)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1260 (Aroclor 1260)	NS	0.071 UJ	0.071 UJ	0.071 UJ	0.071 UJ	0.071 UJ
PCB-1262 (Aroclor 1262)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
PCB-1268 (Aroclor 1268)	NS	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
Total PCBs	0.09	0.071 UJ	0.071 UJ	0.071 UJ	0.071 UJ	0.071 UJ

Table 1F
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Pesticides

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-03_20241018 L2460992-01 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	FB_20241018 L2460992-04 10/18/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Aldrin	ND	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Alpha Endosulfan	NS	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Beta Endosulfan	NS	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Chlordane, Total	0.05	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 U
cis-Chlordane	NS	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Dieldrin	0.004	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Endosulfan Sulfate	NS	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Endrin	ND	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Endrin Aldehyde	5	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Endrin Ketone	5	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Gamma Bhc (Lindane)	0.05	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Heptachlor	0.04	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Heptachlor Epoxide	0.03	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U
Methoxychlor	35	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 U
P,P'-DDD	0.3	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
P,P'-DDE	0.2	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
P,P'-DDT	0.2	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 UJJ	0.029 U
Toxaphene	0.06	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 UJJ	0.143 U
trans-Chlordane	NS	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 UJJ	0.014 U

Table 1G
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations - October 2024
Per- and Polyfluoroalkyl Substances (PFAS)

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20241018 L2461048-03 10/18/2024 ppt 1	MW-03_20241018 L2461048-01 10/18/2024 ppt 1	MW-0X_20241018 L2461048-04 10/18/2024 ppt 1	MW-02_20241018 L2461048-02 10/18/2024 ppt 1	FB_20241018 L2461048-05 10/18/2024 ppt 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NS	37.7 U	80 UJ	38 U	38.1 U	37.3 U
3-Perfluoropentylpropanoic acid (5:3 FTCA)	NS	37.7 U	80 UJ	38 U	38.1 U	37.3 U
3-Perfluoropropylpropanoic acid (3:3 FTCA)	NS	7.54 U	16 UJ	7.59 U	7.63 U	7.47 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	NS	6.03 U	12.8 UJ	6.07 U	6.1 U	5.97 U
N-ethylperfluorooctane sulfonamide (NEtFOSA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	NS	15.1 U	32 UJ	15.2 U	15.2 U	14.9 U
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
N-methylperfluorooctane sulfonamide (NMeFOSA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	NS	15.1 U	32 UJ	15.2 U	15.2 U	14.9 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	3.01 U	6.4 UJ	3.04 U	3.05 U	2.99 U
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	NS	3.01 U	6.4 UJ	3.04 U	3.05 U	2.99 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	3.01 U	0.688 J	3.04 U	3.05 U	2.99 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	3.01 U	6.4 UJ	3.04 U	3.05 U	2.99 U
Perfluorobutanesulfonic acid (PFBS)	NS	2.95	16.4 L	13.2	15.2	1.49 U
Perfluorobutanoic acid (PFBA)	NS	19.4	47.3 L	34	37	5.97 U
Perfluorodecanesulfonic acid (PFDS)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluorodecanoic acid (PFDA)	NS	0.332 J	3.2 UJ	1.15 J	1.01 J	1.49 U
Perfluorododecanesulfonic acid (PFDoS)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluorododecanoic acid (PFDoA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluoroheptanesulfonic acid (PFHpS)	NS	1.51 U	3.2 UJ	0.402 J	1.52 U	1.49 U
Perfluoroheptanoic acid (PFHpA)	NS	9.09	21 L	15.9	17.1	1.49 U
Perfluorohexanesulfonic acid (PFHxS)	NS	3.35	6.93 L	5.32	5.93	1.49 U
Perfluorohexanoic acid (PFHxA)	NS	11.1	30.6 L	53	57.1	1.49 U
Perfluorononanesulfonic acid (PFNS)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluorononanoic acid (PFNA)	NS	1.61	1.89 J	3.82	3.66	1.49 U
Perfluorooctanesulfonamide (PFOSA)	NS	1.51 U	3.2 UJ	0.448 JF	1.52 U	1.49 U
Perfluorooctanesulfonic acid (PFOS)	2.7	12.4	2.83 J	18.7	15.9	1.49 U
Perfluorooctanoic acid (PFOA)	6.7	46.7	71.8 L	50.2	54.9	1.49 U
Perfluoropentanesulfonic acid (PFPeS)	NS	1.46 J	1.95 J	0.949 J	1.32 J	1.49 U
Perfluoropentanoic acid (PFPeA)	NS	13	30.5 L	62.3	60.1	2.99 U
Perfluorotetradecanoic acid (PFTeDA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluorotridecanoic acid (PFTeDA)	NS	1.51 U	3.2 UJ	1.52 U	1.52 U	1.49 U
Perfluoroundecanoic acid (PFUnA)	NS	1.51 U	3.2 UJ	0.349 J	1.52 U	1.49 U

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY

Post-Remedial Groundwater Concentrations Over Time

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	MW-01_20221128 22K1477-01 11/28/2022 µg/L 25	DUP-01_20221128 22K1477-02 11/28/2022 µg/L 25	MW-01_20240304 L2411621-01 3/04/2024 µg/L 1	MW-1_20240612 L2433259-05 6/12/2024 µg/L 1	MW-X_20240612 L2433259-02 6/12/2024 µg/L 1	MW-01_20240816 L2446856-01 8/16/2024 µg/L 1	MW-01_20241018 L2460992-03 10/18/2024 µg/L 1	MW-02_20221201 22L0110-02 12/01/2022 µg/L 1	MW-02_20240304 L2411621-02 3/04/2024 µg/L 1	MW-0X_2 L2411621-02 3/04/2024 µg/L 1
Volatile Organic Compounds (VOCs)	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC
1,1,1,2-Tetrachloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5
1,1,1-Trichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5
1,1,2,2-Tetrachloroethane	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	5 U	5 U	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	1	5 U	5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.2 U	1.5 U	1.5
1,1-Dichloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,1-Dichloroethene	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
1,1-Dichloropropene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,2,3-Trichlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,2,3-Trichloropropane	0.04	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,2,4,5-Tetramethylbenzene	5	NR	NR	2 U	2 U	2 U	2 U	NR	2 U	2
1,2,4-Trichlorobenzene	5	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
1,2,4-Trimethylbenzene	5	5 U	7 JD	0.7 J	2.5 U	0.79 J	2.5 U	0.37 J	1.3 J	1.2
1,2-Dibromo-3-Chloropropane	0.04	NR	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	NR	2.5 UJ	2.5
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	NR	2 U	2 U	2 U	2 U	NR	2 U	2
1,2-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
1,2-Dichloroethane	0.6	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
1,2-Dichloropropane	1	5 U	5 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1
1,3,5-Trimethylbenzene (Mesitylene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,3-Dichlorobenzene	3	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichloropropane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
1,4-Dichlorobenzene	3	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
1,4-Diethyl Benzene	NS	NR	NR	2 U	2 U	2 U	2 U	NR	2 U	2
2,2-Dichloropropane	5	5 UJ	5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	0.2 UJ	2.5 U	2.5
2-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5
4-Chlorotoluene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
4-Ethyltoluene	NS	NR	NR	2 U	2 U	2 U	2 U	NR	2 U	2
Acetone	50	25 UJ	25 UJ	1.7 J	5 U	5 U	5 U	5.7 J	1 UJ	5
Acrolein	5	5 UJ	5 UJ	NR	NR	NR	NR	NR	0.2 UJ	NR
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5
Benzene	1	31.8 D	34.2 D	4.6	3.2	3.2	1	4.3 J	0.93	4.3
Bromobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Bromochloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Bromodichloromethane	50	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
Bromoform	50	5 U	5 U	2 UJ	2 UJ	2 UJ	2 U	0.2 U	2 UJ	2
Bromomethane	5	5 UJ	5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	0.2 UJ	2.5 UJ	2.5
Carbon Disulfide	60	7.5 JD	8 JD	2.2 J	5 U	5 U	1.4 J	0.29 J	1.5 J	1.2
Carbon Tetrachloride	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
Chlorobenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Chloroethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Chloroform	7	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Chloromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Cis-1,2-Dichloroethylene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Cis-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
Cyclohexane	NS	5 U	5 U	NR	NR	NR	NR	0.2 U	NR	NR
Cymene	5	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
Dibromochloromethane	50	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.2 U	0.5 UJ	0.5
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1.16	5 U	5
Dichloroethenes	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
Diethyl Ether (Ethyl Ether)	NS	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5
Ethylbenzene	5	7.25 JD	8.25 JD	1.2 J	0.85 J	0.79 J	2.5 U	1.1 J	0.37 J	1.1
Isopropylbenzene (Cumene)	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
M,P-Xylenes	5	14 JD	15 JD	1.2 J	0.7 J	2.5 U	2.5 U	0.55 J	1.1 J	1
Methyl Acetate	NS	5 U	5 U	NR	NR	NR	NR	0.2 U	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U	5 U	5 U	0.29 J	5 U	5
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5
Methylcyclohexane	NS	5 U	5 U	NR	NR	NR	NR	0.2 U	NR	NR
Methylene Chloride	5	25 U	25 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U	2.5 U	2.5
N-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 UJ	2.5 U	2.5
N-Propylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
O-Xylene (1,2-Dimethylbenzene)	5	10.8 JD	11.8 JD	1.1 J	2.5 U	2.5 U	2.5 U	0.97 J	1.3 J	1.2
Sec-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Styrene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
T-Butylbenzene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Tert-Butyl Alcohol	NS	12.5 U	12.5 U	NR	NR	NR	NR	0.5 U	NR	NR
Tert-Butyl Methyl Ether	10	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Tetrachloroethylene (PCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
Toluene	5	13 D	14.2 D	1 J	2.5 U	0.8 J	0.93 J	0.84	0.89 J	0.82
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	NR	0.5 U	0.5 U	0.5 UJ	0.5 UJ	NR	0.5 U	0.5
Trans-1,2-Dichloroethene	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5
Trans-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.2 U	0.5 U	0.5
Trans-1,4-Dichloro-2-Butene	5	NR	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	NR	2.5 UJ	2.5
Trichloroethylene (TCE)	5	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5
Trichlorofluoromethane	5	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.41 J	2.5 U	2.5
Vinyl Acetate	NS	NR	NR	5 U	5 U	5 U	5 UJ	NR	5 U	5
Vinyl Chloride	2	5 U	5 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1
Xylenes, Total	NS	24.8 JD	26.8 JD	2.3 J	0.7 J	2.5 U	2.5 U	1.04 J	2.4 J	2.2
Total Petroleum Hydrocarbons (TPH)	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC
TPH - Diesel Range Organics (C10 - C28)	NS	NT	NT	401	213	304	115	303	NT	469
TPH - Oil Range Organics	NS	NT	NT	41.9	10.1 J	10.8	5.01	28.8	NT	23.7

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor	0240304 3/21/04 2024 µg/L 1	MW-2_20240612 L2433259-01 6/12/2024 µg/L 1	MW-02_20240816 L2446856-02 8/16/2024 µg/L 1	MW-0X_20240816 L2446856-04 8/16/2024 µg/L 1	MW-02_20241018 L2460992-02 10/18/2024 µg/L 1	MW-0X_20241018 L2460992-05 10/18/2024 µg/L 1	MW-03_20221201 2210110-01 12/01/2022 µg/L 1	MW-03_20240304 L2411621-03 3/04/2024 µg/L 1	MW-3_20240612 L2433259-06 6/12/2024 µg/L 1	MW-03_20240816 L2446856-03 8/16/2024 µg/L 1
Volatile Organic Compounds (VOCs)	AWQSGV	Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5		NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	1	U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	U	2 U	2 U	2 U	2 U	NR	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	J	0.84 J	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UJ	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 UJ	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	U	2 U	2 U	2 U	2 U	NR	2 U	2 U	2 U
1,2-Dichlorobenzene	3	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichloropropane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	U	2 U	2 U	2 U	2 U	NR	2 U	2 U	2 U
2,2-Dichloropropane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 UJ	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	U	2 U	2 U	2 U	2 U	NR	2 U	2 U	2 U
Acetone	50	U	5 U	5 U	5 U	1.7 J	2.6 J	1 UJ	5 U	5 U
Acrolein	5		NR	NR	NR	NR	NR	0.2 UJ	NR	NR
Acrylonitrile	5	U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U
Benzene	1		3.2	2	2.3 J	1.6 J	0.2 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UJ	2 UJ	2 U	2 U	2 U	0.2 U	2 UJ	2 UJ	2 U
Bromomethane	5	UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 U	0.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Chloroform	7	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS		NR	NR	NR	NR	NR	NR	NR	NR
Cymene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 UJ	0.5 U	0.5 U
Dibromomethane	5	U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U
Dichloroethylenes	NS	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	U	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	J	0.8 J	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	5	J	0.76 J	2.5 U	2.5 U	2.5 U	0.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	NS		NR	NR	NR	NR	NR	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U
Methylcyclohexane	NS		NR	NR	NR	NR	NR	NR	NR	NR
Methylene Chloride	5	U	2.5 U	2.5 U	2.5 U	2.5 U	1 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 UJ	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	J	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Styrene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS		NR	NR	NR	NR	0.98 U	NR	NR	NR
Tert-Butyl Methyl Ether	10	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
Toluene	5	J	0.85 J	2.5 U	2.5 U	0.77 J	2.5 UJ	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	NR	0.5 U	0.5 U	0.5 UJ
Trans-1,2-Dichloroethene	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.2 U	0.5 U	0.5 U	0.5 UJ
Trans-1,4-Dichloro-2-Butene	5	UJ	2.5 U	2.5 U	2.5 U	2.5 U	NR	2.5 UJ	2.5 U	2.5 U
Trichloroethylene (TCE)	5	U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	U	5 U	5 U	5 UJ	5 UJ	NR	5 U	5 U	5 U
Vinyl Chloride	2	U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U
Xylenes, Total	NS	J	0.76 J	2.5 U	2.5 U	2.5 U	0.6 U	2.5 U	2.5 U	2.5 U
Total Petroleum Hydrocarbons (TPH)	AWQSGV	Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
TPH - Diesel Range Organics (C10 - C28)	NS		288	303	237	427	294	75.8	116	288
TPH - Oil Range Organics	NS		18.5	27.7	7.41 J	72.4	42.9	2.8 U	23.5	18.5

Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MV-03 20241018 L2460992-01 10/18/2024 µg/L 1
Volatiles Organic Compounds (VOCs)	AWQSGV	CONC. Q
1,1,1,2-Tetrachloroethane	5	2.5 U
1,1,1-Trichloroethane	5	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	NR
1,1,2-Trichloroethane	1	1.5 U
1,1-Dichloroethane	5	2.5 U
1,1-Dichloroethene	5	0.5 U
1,1-Dichloropropene	5	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U
1,2,4-Trichlorobenzene	5	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U
1,2-Dichlorobenzene	3	2.5 U
1,2-Dichloroethane	0.6	0.5 U
1,2-Dichloropropane	1	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U
1,3-Dichlorobenzene	3	2.5 U
1,3-Dichloropropane	5	2.5 U
1,4-Dichlorobenzene	3	2.5 U
1,4-Diethyl Benzene	NS	2 U
2,2-Dichloropropane	5	2.5 U
2-Chlorotoluene	5	2.5 U
2-Hexanone	50	5 U
4-Chlorotoluene	5	2.5 U
4-Ethyltoluene	NS	2 U
Acetone	50	1.8 J
Acrolein	5	NR
Acrylonitrile	5	5 U
Benzene	1	0.5 UJ
Bromobenzene	5	2.5 U
Bromochloromethane	5	2.5 U
Bromodichloromethane	50	0.5 U
Bromoform	50	2 U
Bromomethane	5	2.5 U
Carbon Disulfide	60	5 U
Carbon Tetrachloride	5	0.5 U
Chlorobenzene	5	2.5 U
Chloroethane	5	2.5 U
Chloroform	7	2.5 U
Chloromethane	5	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U
Cis-1,3-Dichloropropene	NS	0.5 U
Cyclohexane	NS	NR
Cymene	5	2.5 U
Dibromochloromethane	50	0.5 U
Dibromomethane	5	5 U
Dichlorodifluoromethane	5	5 U
Dichloroethylenes	NS	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U
Ethylbenzene	5	2.5 U
Isopropylbenzene (Cumene)	5	2.5 U
M,P-Xylenes	5	2.5 U
Methyl Acetate	NS	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U
Methylcyclohexane	NS	NR
Methylene Chloride	5	2.5 U
N-Butylbenzene	5	2.5 U
N-Propylbenzene	5	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	2.5 U
Sec-Butylbenzene	5	2.5 U
Styrene	5	2.5 U
T-Butylbenzene	5	2.5 U
Tert-Butyl Alcohol	NS	NR
Tert-Butyl Methyl Ether	10	2.5 U
Tetrachloroethylene (PCE)	5	0.5 U
Toluene	5	2.5 UJ
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 U
Trichloroethylene (TCE)	5	0.5 U
Trichlorofluoromethane	5	2.5 U
Vinyl Acetate	NS	5 UJ
Vinyl Chloride	2	1 U
Xylenes, Total	NS	2.5 U
Total Petroleum Hydrocarbons (TPH)	AWQSGV	CONC. Q
TPH - Diesel Range Organics (C10 - C28)	NS	115
TPH - Oil Range Organics	NS	22.6

Table 3
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Soil Vapor Concentrations - October 2024
Volatile Organic Compounds (VOCs)

Sample ID			INF 20241018	INT 20241018	EFF 20241018
Lab Sample ID			L2461002-01	L2461002-02	L2461002-03
Date Sampled			10/18/2024	10/18/2024	10/18/2024
Unit			µg/m ³	µg/m ³	µg/m ³
Dilution Factor			1	1	1
Compound	DAR-1 AGC	DAR-1 SGC			
1,1,1-Trichloroethane	5,000	9,000	1.09 U	1.09 U	1.09 U
1,1,2,2-Tetrachloroethane	16	NS	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	180,000	960,000	NS	NS	NS
1,1,2-Trichloroethane	1.4	NS	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	0.63	NS	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	200	NS	0.793 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene	NS	3,700	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	6	NS	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0017	NS	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	200	30,000	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	0.038	NS	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	4	NS	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	17,000	NS	NS	NS	NS
1,3,5-Trimethylbenzene (Mesitylene)	6	NS	0.983 U	0.983 U	0.983 U
1,3-Butadiene	0.033	NS	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	10	NS	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	0.09	NS	1.2 U	1.2 U	1.2 U
2,2,4-Trimethylpentane	3,300	NS	0.934 U	0.934 U	0.934 U
2-Hexanone	30	4,000	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	NS	NS	0.983 U	0.983 U	0.983 U
Acetone	30,000	180,000	35.2	30.6	34.2
Allyl Chloride (3-Chloropropene)	1	600	0.626 U	0.626 U	0.626 U
Benzene	0.13	1,300	0.639 U	0.639 U	0.639 U
Benzyl Chloride	0.02	240	1.04 U	1.04 U	1.04 U
Bromodichloromethane	70	NS	1.34 U	1.34 U	1.34 U
Bromoform	0.91	NS	2.07 U	2.07 U	2.07 U
Bromomethane	NS	3,900	0.777 U	0.777 U	0.777 U
Carbon Disulfide	700	6,200	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	0.067	1,900	1.26 U	1.26 U	1.26 U
Chlorobenzene	60	NS	0.921 U	0.921 U	0.921 U
Chloroethane	NS	NS	0.528 U	0.528 U	0.528 U
Chloroform	14.7	150	6.25	11.1	8.64
Chloromethane	90	22,000	0.413 U	0.413 U	0.413 U
Cis-1,2-Dichloroethylene	63	NS	0.793 U	0.793 U	0.793 U
Cis-1,3-Dichloropropene	0.25	NS	0.908 U	0.908 U	0.908 U
Cyclohexane	6,000	NS	0.688 U	0.688 U	0.688 U
Dibromochloromethane	NS	NS	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	12,000	NS	52.4	51.4	53.9
Ethanol	45,000	NS	9.42 U	9.42 U	9.42 U
Ethyl Acetate	3,400	NS	1.8 U	1.8 U	1.8 U
Ethylbenzene	1,000	NS	4.52	1.48	2
Hexachlorobutadiene	0.045	NS	2.13 U	2.13 U	2.13 U
Isopropanol	7,000	98,000	191	212	270
M,P-Xylenes	100	22,000	20.6	7.34	8.9
Methyl Ethyl Ketone (2-Butanone)	5,000	13,000	1.97	2.06	1.83
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3,000	31,000	2.05 U	2.05 U	2.05 U
Methylene Chloride	60	14,000	4.34	5.25	5
Naphthalene	NS	NS	27.3	42.6	28.3
N-Heptane	3,900	210,000	NS	NS	NS
N-Hexane	700	NS	1.05 U	1.05 U	1.05 U
O-Xylene (1,2-Dimethylbenzene)	100	22,000	6.56	2.35	2.59
Styrene	1,000	1,700	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	720	NS	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	3.8	NS	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	4	300	2.02	1.36 U	1.36 U
Tetrahydrofuran	350	30,000	1.47 U	4.54	3.19
Toluene	5,000	37,000	1.39	0.938	1.37
Trans-1,2-Dichloroethene	63	NS	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	0.25	NS	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	0.2	14,000	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane	5,000	9,000	248	261	
Vinyl Bromide	3	NS	0.874 U	0.874 U	0.874 U
Vinyl Chloride	0.068	180,000	0.511 U	0.511 U	0.511 U

Table 4
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
 Post-Remedial Soil Vapor Concentrations Over Time
 Volatile Organic Compounds (VOCs)

Compound	Sample ID Lab Sample ID Date Sampled Unit Dilution Factor	SVE-INF_20231005 L2359076-01 10/05/2023 µg/m ³ 2.021	SVE-INF_20240305 L2411776-01 3/05/2024 µg/m ³ 2.093	INF_20241018 L2461002-01 10/18/2024 µg/m ³ 1	SVE-INT_20231005 L2359076-02 10/05/2023 µg/m ³ 2.097	SVE-INT_20240305 L2411776-02 3/05/2024 µg/m ³ 2.092	INT_20241018 L2461002-02 10/18/2024 µg/m ³ 1	SVE-EFF_20231005 L2359076-03 10/05/2023 µg/m ³ 2.063	SVE-EFF_20240305 L2411776-03 3/05/2024 µg/m ³ 2.1	EFF_20241018 L2461002-03 10/18/2024 µg/m ³ 1
		DAR-1 AGC	DAR-1 SGC	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	5,000	9,000	2.2 U	2.29 U	1.09 U	2.29 U	2.28 U	1.09 U	2.25 U	2.29 U
1,1,2,2-Tetrachloroethane	16	NS	2.77 U	2.88 U	1.37 U	2.88 U	2.87 U	1.37 U	2.84 U	2.88 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	180,000	960,000	3.1 U	3.21 U	NS	3.21 U	3.2 U	NS	3.17 U	3.22 U
1,1,2-Trichloroethane	1.4	NS	2.2 U	2.29 U	1.09 U	2.29 U	2.28 U	1.09 U	2.25 U	2.29 U
1,1-Dichloroethane	0.63	NS	1.64 U	1.7 U	0.809 U	1.7 U	1.69 U	0.809 U	1.67 U	1.7 U
1,1-Dichloroethene	200	NS	1.6 U	1.66 U	0.793 U	1.66 U	1.66 U	0.793 U	1.64 U	1.67 U
1,2,4-Trichlorobenzene	NS	3,700	3 U	3.11 UJ	1.48 U	3.11 UJ	3.1 UJ	1.48 U	3.07 UJ	3.12 UJ
1,2,4-Trimethylbenzene	6	NS	1.99 U	2.06 U	0.983 U	2.05 U	0.983 U	2.03 UJ	2.06 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0017	NS	3.1 U	3.22 U	1.54 U	3.22 U	3.21 U	1.54 U	3.17 U	3.23 U
1,2-Dichlorobenzene	200	30,000	2.43 U	2.52 U	1.2 U	2.52 U	2.51 U	1.2 U	2.48 U	2.53 U
1,2-Dichloroethane	0.038	NS	1.64 U	1.7 U	0.809 U	1.7 U	1.69 U	0.809 U	1.67 U	1.7 U
1,2-Dichloropropane	4	NS	1.87 U	1.94 U	0.924 U	1.94 U	1.93 U	0.924 U	1.91 U	0.924 U
1,2-Dichlorotetrafluoroethane	17,000	NS	2.82 U	2.93 U	NS	2.93 U	2.92 U	NS	2.89 U	2.94 U
1,3,5-Trimethylbenzene (Mesitylene)	6	NS	1.99 U	2.06 U	0.983 U	2.06 U	2.05 U	0.983 U	2.03 U	0.983 U
1,3-Butadiene	0.033	NS	0.894 U	0.927 U	0.442 U	0.927 U	0.925 U	0.442 U	0.914 U	0.929 U
1,3-Dichlorobenzene	10	NS	2.43 U	2.52 U	1.2 U	2.52 U	2.51 U	1.2 U	2.48 U	2.53 U
1,4-Dichlorobenzene	0.09	NS	2.43 U	2.52 U	1.2 U	2.52 U	2.51 U	1.2 U	2.48 U	2.53 U
2,2,4-Trimethylpentane	3,300	NS	1.89 U	1.96 U	0.934 U	1.96 U	1.95 U	0.934 U	1.93 U	1.96 U
2-Hexanone	30	4,000	1.66 U	1.72 U	0.82 U	1.72 U	1.71 U	0.82 U	1.69 U	1.72 U
4-Ethyltoluene	NS	NS	1.99 U	2.06 U	0.983 U	2.06 U	2.05 U	0.983 U	2.03 U	0.983 U
Acetone	30,000	180,000	150	12.8	35.2	20.8	22.2	30.6	92.2	25.9
Allyl Chloride (3-Chloropropene)	1	600	1.26 U	1.31 U	0.626 U	1.31 U	1.31 U	0.626 U	1.29 U	1.31 U
Benzene	0.13	1,300	1.29 U	1.34 U	0.639 U	1.34 U	1.34 U	0.639 U	1.32 U	1.34 U
Benzyl Chloride	0.02	240	2.09 U	2.17 U	1.04 U	2.17 U	2.16 U	1.04 U	2.14 U	2.17 U
Bromodichloromethane	70	NS	2.71 U	2.81 U	1.34 U	2.81 U	2.8 U	1.34 U	2.77 U	2.81 U
Bromoform	0.91	NS	4.18 U	4.33 U	2.07 U	4.33 U	4.32 U	2.07 U	4.27 U	4.34 U
Bromomethane	NS	3,900	1.57 U	1.63 U	0.777 U	1.63 U	1.62 U	0.777 U	1.6 U	1.63 U
Carbon Disulfide	700	6,200	1.26 U	1.3 U	0.623 U	1.3 U	1.3 U	0.623 U	1.29 U	1.31 U
Carbon Tetrachloride	0.067	1,900	2.54 U	2.64 U	1.26 U	2.64 U	2.63 U	1.26 U	2.6 U	2.64 U
Chlorobenzene	60	NS	1.86 U	1.93 U	0.921 U	1.93 U	1.93 U	0.921 U	1.9 U	1.93 U
Chloroethane	NS	NS	1.07 U	1.11 U	0.528 U	1.11 U	1.1 U	0.528 U	1.09 U	1.11 U
Chloroform	14.7	150	3.27	2.05 U	6.25	2.05 U	2.04 U	11.1	2.02 U	2.05 U
Chloromethane	90	22,000	0.834 U	0.865 U	0.413 U	0.865 U	0.863 U	0.413 U	0.853 U	0.867 U
Cis-1,2-Dichloroethylene	63	NS	1.6 U	1.66 U	0.793 U	1.66 U	1.66 U	0.793 U	1.64 U	1.67 U
Cis-1,3-Dichloropropene	0.25	NS	1.83 U	1.9 U	0.908 U	1.9 U	1.9 U	0.908 U	1.87 U	1.91 U
Cyclohexane	6,000	NS	2	1.44 U	0.688 U	1.44 U	1.44 U	0.688 U	8.33	1.45 U
Dibromochloromethane	NS	NS	3.44 U	3.57 U	1.7 U	3.57 U	3.56 U	1.7 U	3.52 U	3.58 U
Dichlorodifluoromethane	12,000	NS	169	34.3	52.4	175	34.4	51.4	164	33.5
Ethanol	45,000	NS	73.7	28.5	9.42 U	47.1	24.9	9.42 U	110	26.2
Ethyl Acetate	3,400	NS	3.64 U	3.78 U	1.8 U	3.78 U	3.78 U	1.8 U	3.71 U	3.78 U
Ethylbenzene	1,000	NS	2.48	2.44	4.52	1.82 U	1.82 U	1.48	2.04	1.82 U
Hexachlorobutadiene	0.045	NS	4.31 U	4.47 U	2.13 U	4.47 U	4.46 U	2.13 U	4.41 U	4.48 U
Isopropanol	7,000	98,000	103	174	191	112	21.9	212	197	23.4
M,P-Xylenes	100	22,000	9.86	10.4	20.6	5.43	3.64 U	7.34	7.08	3.65 U
Methyl Ethyl Ketone (2-Butanone)	5,000	13,000	3.72	3.1 U	1.97	3.1 U	3.1 U	2.06	17.5	3.1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3,000	31,000	4.14 U	4.3 U	2.05 U	4.3 U	4.3 U	2.05 U	4.22 U	4.3 U
Methylene Chloride	60	14,000	3.51 U	3.65 U	4.34	3.65 U	3.65 U	5.25	3.58 U	3.65 U
Naphthalene	NS	NS	NR	2.2 U	27.3	NR	2.19 U	42.6	NR	2.2 U
N-Heptane	3,900	210,000	1.66 U	1.72 U	NS	1.72 U	1.71 U	NS	2.9	1.72 U
N-Hexane	700	NS	1.42 U	1.78	1.05 U	1.48 U	4.93	1.05 U	1.46 U	5.71
O-Xylene (1,2-Dimethylbenzene)	100	22,000	3.97	5.86	6.56	2.22	1.82 U	2.35	2.43	1.82 U
Styrene	1,000	1,700	1.72 U	1.78 U	0.852 U	1.78 U	1.78 U	0.852 U	1.76 U	1.79 U
Tert-Butyl Alcohol	720	NS	3.06 U	NR	1.52 U	4.06	NR	1.52 U	3.12 U	NR
Tert-Butyl Methyl Ether	3.8	NS	1.46 U	1.51 U	0.721 U	1.51 U	1.51 U	0.721 U	1.49 U	1.51 U
Tetrachloroethylene (PCE)	4	300	4.48	24.4	2.02	2.84 U	2.83 U	1.36 U	2.8 U	4.71
Tetrahydrofuran	350	30,000	5.16	3.1 U	1.47 U	3.1 U	3.1 U	4.54	6.13	4.1
Toluene	5,000	37,000	17	4.64	1.39	16.7	14.8	0.938	22.8	12.7
Trans-1,2-Dichloroethene	63	NS	1.6 U	1.66 U	0.793 U	1.66 U	1.66 U	0.793 U	1.64 U	1.67 U
Trans-1,3-Dichloropropene	0.25	NS	1.83 U	1.9 U	0.908 U	1.9 U	1.9 U	0.908 U	1.87 U	1.91 U
Trichloroethylene (TCE)	0.2	14,000	2.17 U	2.25 U	1.07 U	2.25 U	2.25 U	1.07 U	2.22 U	2.26 U
Trichlorofluoromethane	5,000	9,000	719	101	248	294	71.4	261	29.8	68.6
Vinyl Bromide	3	NS	1.77 U	1.83 U	0.874 U	1.83 U	1.83 U	0.874 U	1.81 U	1.84 U
Vinyl Chloride	0.068	180,000	1.03 U	1.07 U	0.511 U	1.07 U	1.07 U	0.511 U	1.06 U	1.07 U

Tables 1-4
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Sampling
Notes

DEFINITIONS

- D** : Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
- F** : Field parameter with a holding time of 15 minutes
- H** : Sample result is estimated and biased high.
- J** : The concentration given is an estimated value.
- L** : Sample result is estimated and biased low.
- ND** : The standard is a non-detectable concentration by the approved analytical method.
- NR** : Not reported.
- NS** : No standard.
- NT** : Not tested.
- U** : The analyte was not detected at the indicated concentration.
- UJ** : The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- µg/L** : micrograms per liter
- ppt** : parts per trillion

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 bold font.

DAR-1 : New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources
AGC/SGC : (DAR) Annual Guideline Concentrations (AGC) and Short-Term Guideline Concentrations (SGC)
published in Air Guide-1 (DAR-1) Oct 18, 2010.

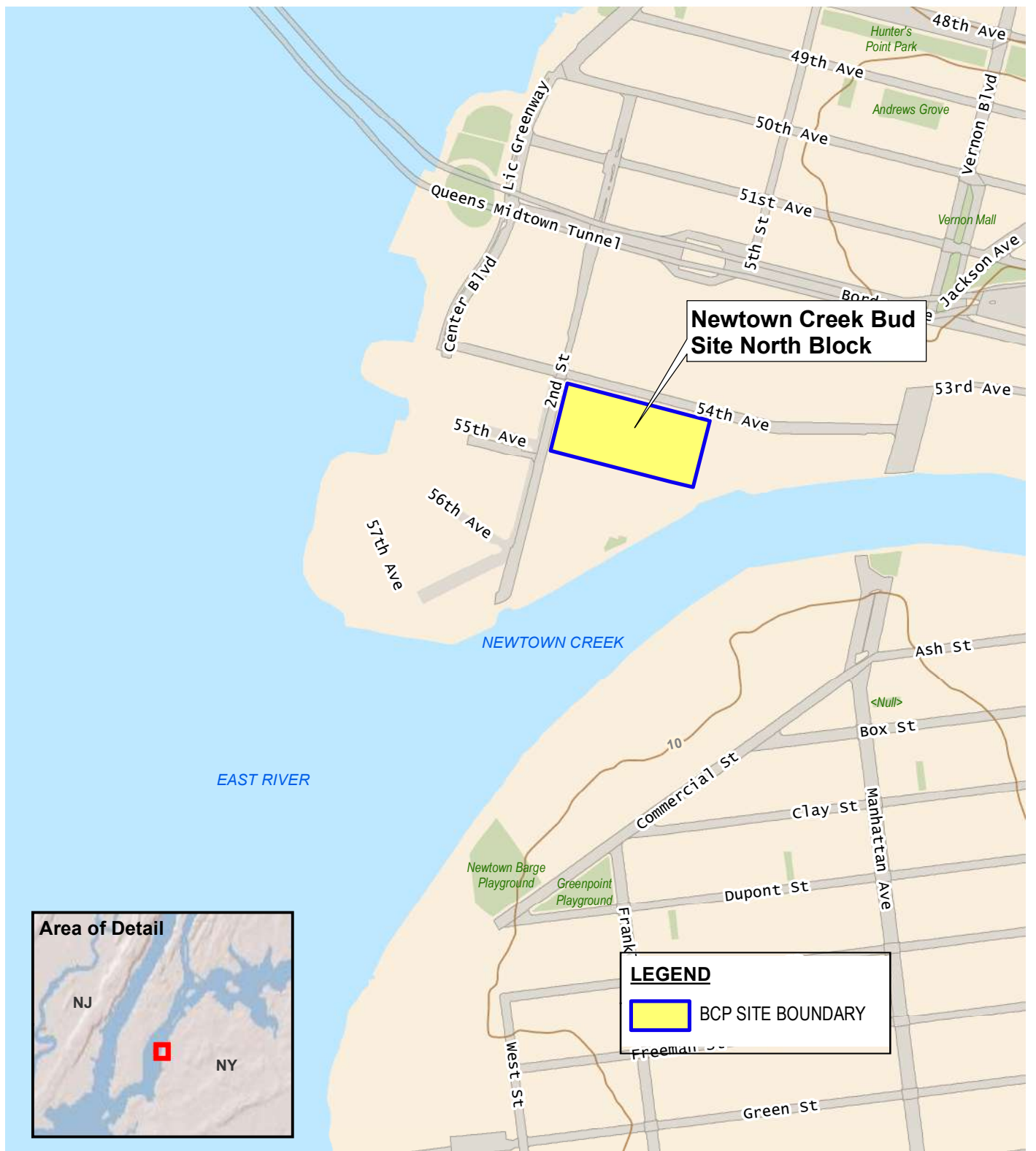
Exceedances of DAR-1 AGCs are highlighted in gray shading.

Exceedances of DAR-1 SGCs are highlighted in bold font.

DUPLICATES

DUP-01_20221128 is a blind duplicate of sample MW-01_20221128
MW-0X_20240304 is a blind duplicate of sample MW-02_20240304
MW-X_20240612 is a blind duplicate of sample MW-1_20240612
MW-0X_20240816 is a duplicate of sample MW-03_20240816
MW-0X_20241018 is a blind duplicate of sample MW-02_20241018

FIGURES



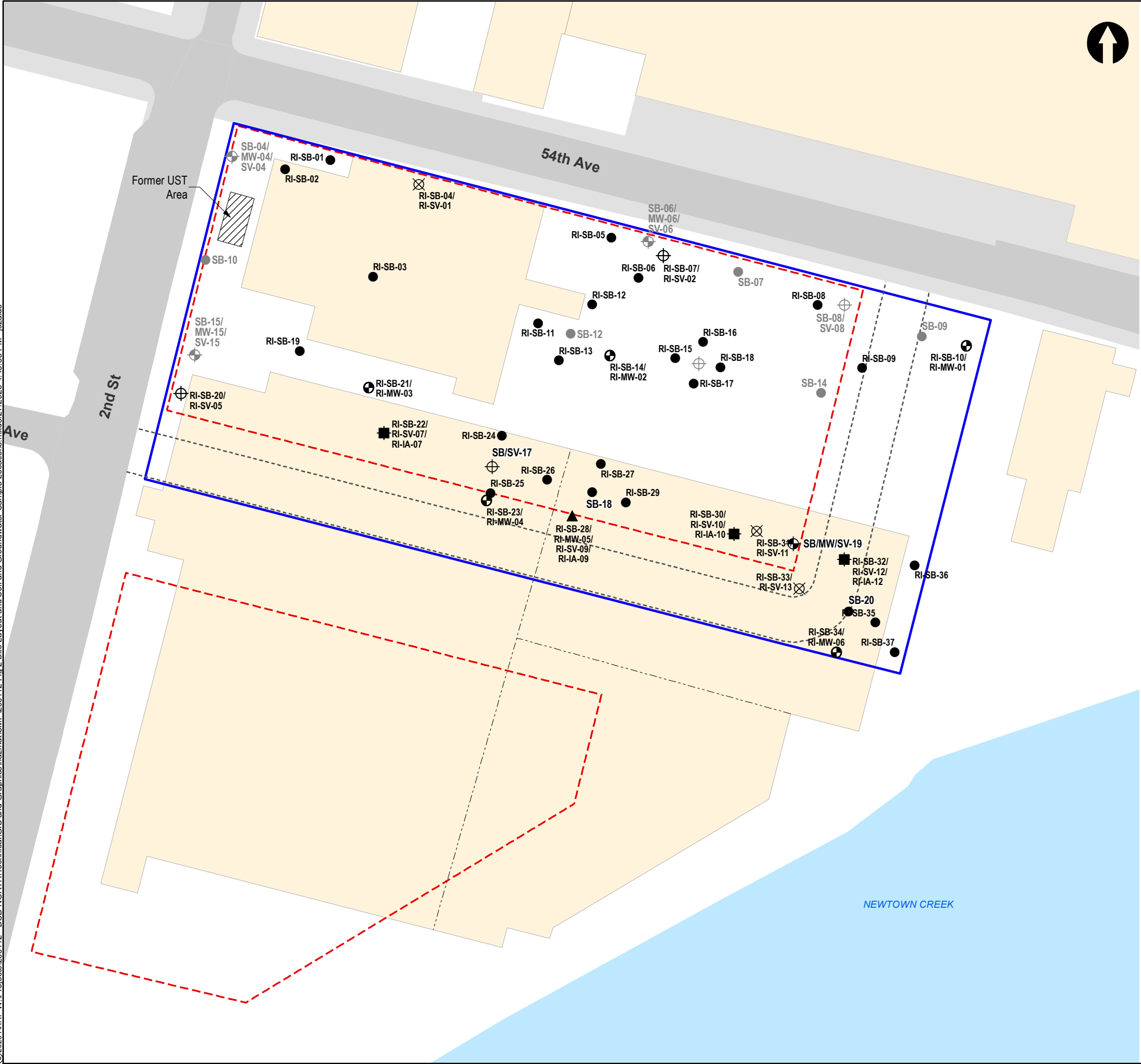
440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block
2-10 54th Avenue - Long Island City, New York

BCP SITE LOCATION

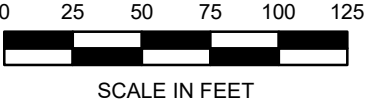
DATE
11/29/2021
PROJECT NO.
200112
FIGURE
1

© 2023 AKRF W:\Projects\200112 - BUD NORTH\Technical\GIS and Graphics\hazmat\SMP\200112 Fig 2 Site Layout and Soil and Groundwater Sample Locations.mxd 6/27/2023 4:45:58 PM iszalus



LEGEND

- BCP SITE AND ENVIRONMENTAL EASEMENT BOUNDARY
 - NEW BUILDING FOOTPRINT
 - FORMER BUILDING
 - PREVIOUS SOIL BORING LOCATION
 - PREVIOUS SOIL BORING/GROUNDWATER/SOIL VAPOR POINT LOCATION
 - PREVIOUS SOIL BORING/SOIL VAPOR POINT LOCATION
 - RI SOIL BORING
 - RI SOIL BORING/MONITORING WELL
 - RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION
 - RI SOIL BORING/SUB-SLAB LOCATION
 - RI SOIL BORING/SOIL VAPOR POINT
 - RI SOIL BORING/SOIL VAPOR POINT/INDOOR
- UST UNDERGROUND STORAGE TANK



Newtown Creek Bud Site - North Block

2-21 Malt Drive - Long Island City, New York

SITE LAYOUT AND SOIL AND GROUNDWATER SAMPLE LOCATIONS



440 Park Avenue South, New York, NY 10016

DATE

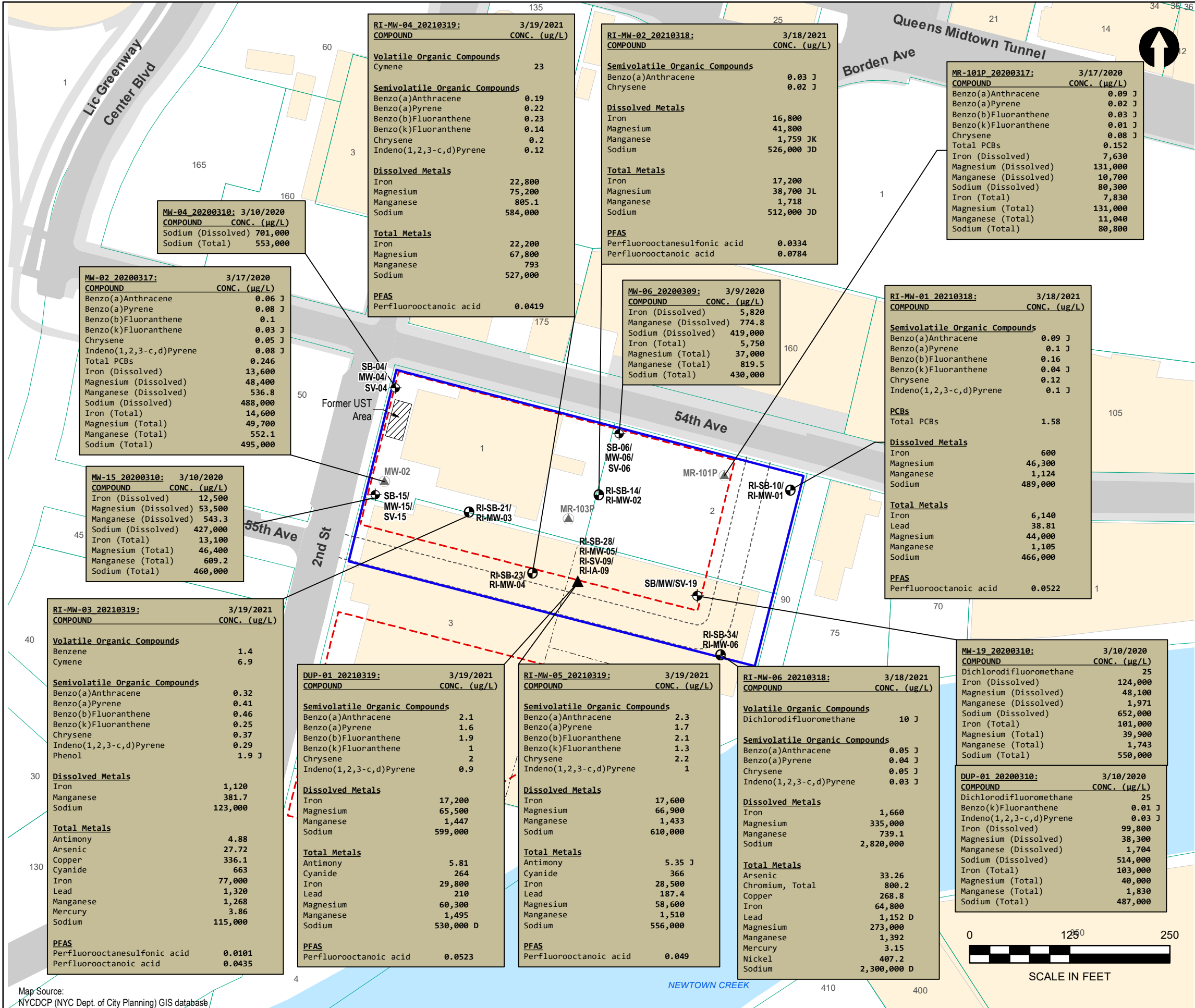
6/27/2023

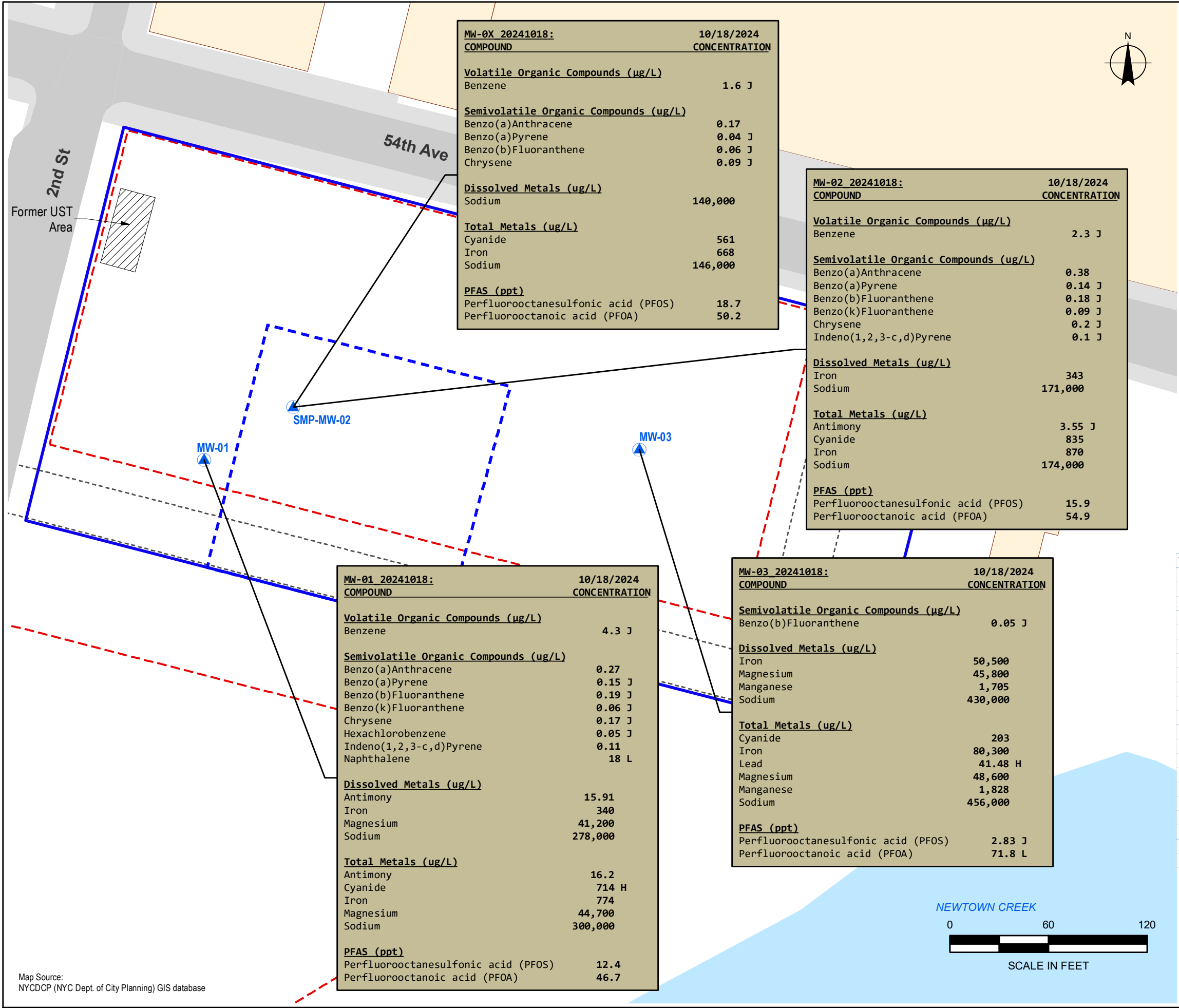
PROJECT NO.

200112

FIGURE

2





MW-0X_20241018:	10/18/2024
COMPOUND	CONCENTRATION
<u>Volatile Organic Compounds (ug/L)</u>	
Benzene	1.6 J
<u>Semivolatile Organic Compounds (ug/L)</u>	
Benzo(a)Anthracene	0.17
Benzo(a)Pyrene	0.04 J
Benzo(b)Fluoranthene	0.06 J
Chrysene	0.09 J
<u>Dissolved Metals (ug/L)</u>	
Sodium	140,000
<u>Total Metals (ug/L)</u>	
Cyanide	561
Iron	668
Sodium	146,000
<u>PFAS (ppt)</u>	
Perfluorooctanesulfonic acid (PFOS)	18.7
Perfluorooctanoic acid (PFOA)	50.2

MW-02_20241018:	10/18/2024
COMPOUND	CONCENTRATION
<u>Volatile Organic Compounds (ug/L)</u>	
Benzene	2.3 J
<u>Semivolatile Organic Compounds (ug/L)</u>	
Benzo(a)Anthracene	0.38
Benzo(a)Pyrene	0.14 J
Benzo(b)Fluoranthene	0.18 J
Benzo(k)Fluoranthene	0.09 J
Chrysene	0.2 J
Indeno(1,2,3-c,d)Pyrene	0.1 J
<u>Dissolved Metals (ug/L)</u>	
Iron	343
Sodium	171,000
<u>Total Metals (ug/L)</u>	
Antimony	3.55 J
Cyanide	835
Iron	870
Sodium	174,000
<u>PFAS (ppt)</u>	
Perfluorooctanesulfonic acid (PFOS)	15.9
Perfluorooctanoic acid (PFOA)	54.9

MW-03_20241018:	10/18/2024
COMPOUND	CONCENTRATION
<u>Semivolatile Organic Compounds (ug/L)</u>	
Benzo(b)Fluoranthene	0.05 J
<u>Dissolved Metals (ug/L)</u>	
Iron	50,500
Magnesium	45,800
Manganese	1,705
Sodium	430,000
<u>Total Metals (ug/L)</u>	
Cyanide	203
Iron	80,300
Lead	41.48 H
Magnesium	48,600
Manganese	1,828
Sodium	456,000
<u>PFAS (ppt)</u>	
Perfluorooctanesulfonic acid (PFOS)	2.83 J
Perfluorooctanoic acid (PFOA)	71.8 L

MW-01_20241018:	10/18/2024
COMPOUND	CONCENTRATION
<u>Volatile Organic Compounds (ug/L)</u>	
Benzene	4.3 J
<u>Semivolatile Organic Compounds (ug/L)</u>	
Benzo(a)Anthracene	0.27
Benzo(a)Pyrene	0.15 J
Benzo(b)Fluoranthene	0.19 J
Benzo(k)Fluoranthene	0.06 J
Chrysene	0.17 J
Hexachlorobenzene	0.05 J
Indeno(1,2,3-c,d)Pyrene	0.11
Naphthalene	18 L
<u>Dissolved Metals (ug/L)</u>	
Antimony	15.91
Iron	340
Magnesium	41,200
Sodium	278,000
<u>Total Metals (ug/L)</u>	
Antimony	16.2
Cyanide	714 H
Iron	774
Magnesium	44,700
Sodium	300,000
<u>PFAS (ppt)</u>	
Perfluorooctanesulfonic acid (PFOS)	12.4
Perfluorooctanoic acid (PFOA)	46.7

- LEGEND**
- BCP SITE BOUNDARY
 - EXISTING BUILDING
 - NEW BUILDING FOOTPRINT
 - APPROXIMATE LOCATION OF NEW ROAD
 - GROUNDWATER MONITORING WELL LOCATION
- NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs)**

New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (1.1.1): April 2023

ug/L: micrograms per Liter = parts per billion (ppb)
ppt parts per trillion(ppt)

PFOA: Perfluorooctanoic acid
PFAS: Per- and polyfluoroalkyl substances

Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

J: The concentration given is an estimated value.
L: Sample result is estimated and biased low.
H: Sample result is estimated and biased high.

MW-0X_20240304 is a blind duplicate of sample MW-02_20240304
MW-X_20240612 is a blind duplicate of sample MW-1_20240612
MW-0X_20240816 is a duplicate of sample MW-03_20240816
MW-0X_20241018 is a blind duplicate of sample MW-02_20241018

	NYSDEC AWQSGVs	
	ug/l	ppt
<u>Volatile Organic Compounds</u>		
Benzene	1	
Naphthalene	10	
<u>Semivolatile Organic Compounds</u>		
Benzo(a)Anthracene	0.002	
Benzo(a)Pyrene	0	
Benzo(b)Fluoranthene	0.002	
Benzo(k)Fluoranthene	0.002	
Chrysene	0.002	
Hexachlorobenzene	0.04	
Indeno(1,2,3-c,d)Pyrene	0.002	
<u>Metals</u>		
Antimony	3	
Cyanide	200	
Iron	300	
Lead	25	
Magnesium	35,000	
Manganese	300	
Sodium	20,000	
<u>PFAS</u>		
Perfluorooctanesulfonic acid (PFOS)		2.7
Perfluorooctanoic acid (PFOA)		6.7

Sample ID	Sample Date
MW-04_20240310:	3/10/2020
COMPOUND	CONC. (ug/L)
Sodium (Dissolved)	701,000
Sodium (Total)	553,000
Analyte/Compound	Concentration

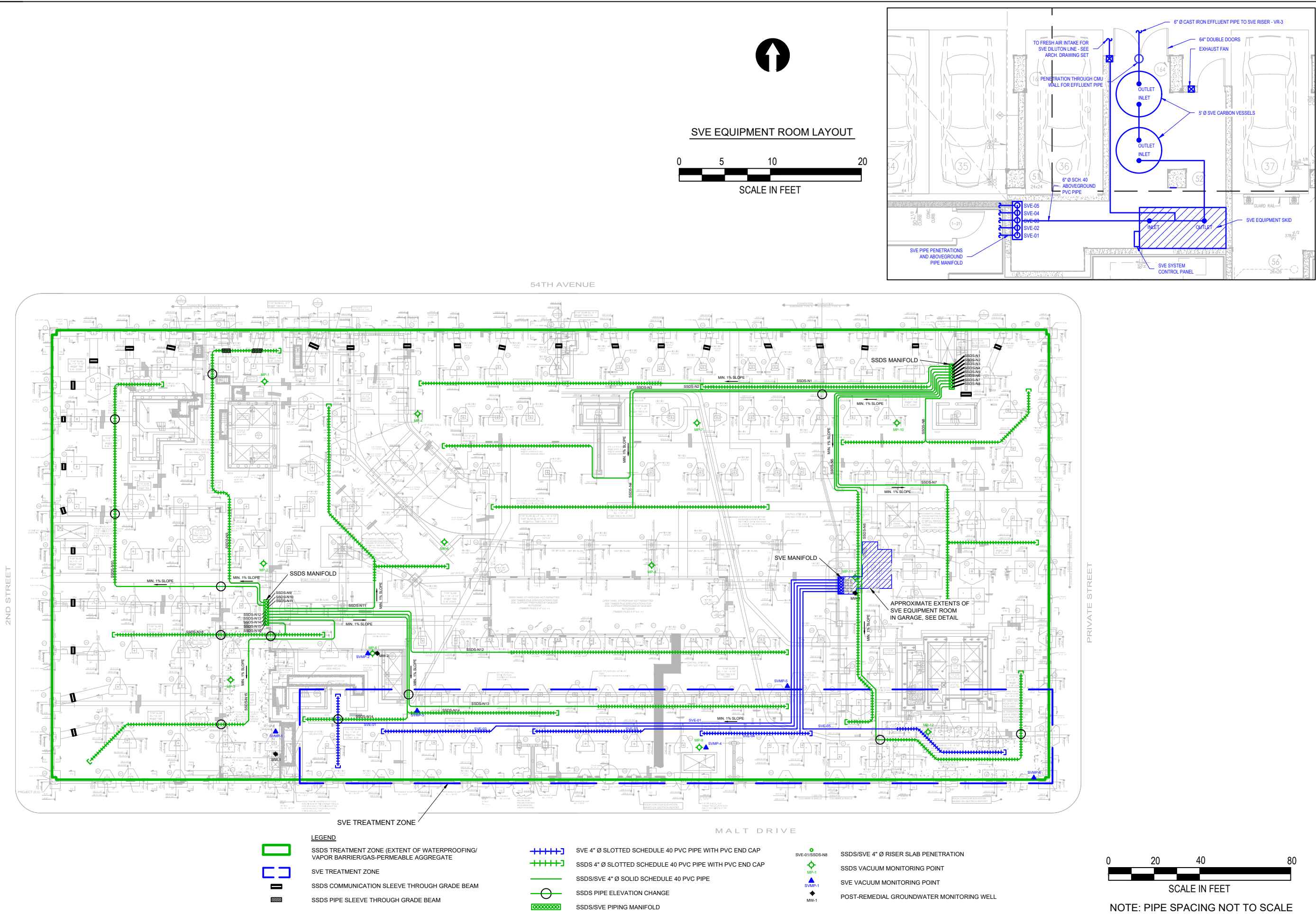
Newtown Creek Bud Site - North Block
2-21 Malt Drive - Long Island City, New York

Post-Remediation Groundwater Sample Analytical Results Above AWQSGVs



DATE
12/13/2024
PROJECT NO.
200112
FIGURE
4

©2021 AKRF, Inc. W:\Projects\200112 - BUD NORTH\Technical\Hazard\RAW\PCAD\200112 Fig 14 SSDS SVE Layout.dwg last save: mveilleux 12/9/2021 4:17 PM



ATTACMENT A
GROUNDWATER SAMPLING LOGS

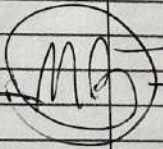
akrf

440 Park Avenue South, 7th Floor
New York, NY 10016

Groundwater Monitoring Well Sampling Log

Page X of X

Project Name:		Bud North		Client:		Well ID:	
Project Location:				Sampled By:		MB	
Project Number:		20012		Sampling Date:		10/17/24	
Headspace PID:		.3		Sampling Time:		1545	
Total Well Depth:		16.93 ft. below top of casing		Water Column:		7.54 feet	
Depth to Water:		9.42 ft. below top of casing		Well Volume*:		1.22 gallons	
Product Thickness:		NA ft. below top of casing		Volume Purged:		.70 gallons	
Depth to Top of Screen:		ft. below top of casing		Well Diameter:		2 inches	
Depth to Bottom of Screen:		ft. below top of casing		Purging Device:		Blocker pump	
Approximate Pump Intake:		ft. below top of casing				The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	

Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1505	4.67	75	19.9	1.942	.95	7.89	-62.5	45.91	MS/MSP Collected
1510	10.02	1	19.6	1.919	.48	7.82	-89.3	23.52	
1515	10.45	1	19.6	2.146	.40	7.79	-243.6	23.65	
1520	10.68	1	19.5	2.342	.24	7.83	-288.8	24.34	
1525	10.96	1	19.4	2.434	.22	7.87	-328.5	17.05	
1530	11.03	1	19.3	2.496	.20	7.88	-342.2	14.16	
1535	11.14	1	19.3	2.478	.18	7.88	-348.1	12.73	
1540	11.27	1	19.2	2.485	.18	7.87	-350.4	17.14	
									Measurements from top of slab for DTU
Stabilization Criteria:			+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU		
Notes:		ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - milligrams per liter Groundwater samples analyzed for							

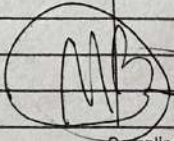
akrf440 Park Avenue South, 7th Floor
New York, NY 10016**Groundwater Monitoring Well
Sampling Log**

Page X of X

Project Name:	But North		Client:			Well ID:	MW-02			
Project Location:			Sampled By:	MB						
Project Number:	20012		Sampling Date:	10/18/24						
Headspace PID:	1.0		Sampling Time:	1350						
Total Well Depth:	25.32 ft. below top of casing		Water Column:	11.01 feet		* = 0.041 * WC for 1" wells				
Depth to Water:	14.31 ft. below top of casing		Well Volume:	1.80M gallons		* = 0.163 * WC for 2" wells				
Product Thickness:	0 ft. below top of casing		Volume Purged:	.5 gallons		* = 0.653 * WC for 4" wells				
Depth to Top of Screen:	ft. below top of casing		Well Diameter:	2 inches						
Depth to Bottom of Screen:	ft. below top of casing		Purging Device:	Bladder Pump		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.				
Approximate Pump Intake:	ft. below top of casing									
Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)	
1320	14.41	75	18.8	3.283	1.81	8.73	-154.7	58.47	DUP Collected - Sulfur Like Shell	
1325	14.44		18.6	3.126	1.28	9.24	-246.2	30.73		
1330	14.40		18.6	2.894	1.78	9.30	-247.51	26.34		
1335	14.43		18.6	2.710	1.74	9.30	-240.2	22.86		
1340	14.47		18.6	2.578	1.71	9.27	-248.6	14.69		
1345	14.42		18.7	2.561	1.76	9.23	-282.9	25.41		
(Large circled signature 'MB' with lines pointing to the data rows)										
Sampling										
Stabilization Criteria:										
ORP - oxidation reduction potential			mV - millivolt		NTU - nephelometric turbidity units		mL/min - milliliter per minute		mS/cm - MilliSiemens per centimeter	
Groundwater samples analyzed for										

akrf440 Park Avenue South, 7th Floor
New York, NY 10016**Groundwater Monitoring Well
Sampling Log**

Page X of X

Project Name:		Bud North		Client:		~~Bud North~~		Well ID:	
Project Location:				Sampled By:		MB		MW-03	
Project Number:		200112		Sampling Date:		10/18/24			
Headspace PID:		0.1		Sampling Time:		1240			
Total Well Depth:		19.82 ft. below top of casing		Water Column:		5.860 feet		* = 0.041 * WC for 1" wells	
Depth to Water:		13.96 ft. below top of casing		Well Volume*:		.964 gallons		* = 0.163 * WC for 2" wells	
Product Thickness:		ft. below top of casing		Volume Purged:		.90 gallons		* = 0.653 * WC for 4" wells	
Depth to Top of Screen:		ft. below top of casing		Well Diameter:		2 inches		The target maximum flow rate is 100 ml/min. If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Depth to Bottom of Screen:		ft. below top of casing		Purging Device:		Bladder Pump			
Approximate Pump Intake:		17.5 ft. below top of casing							
Time	Depth to Water (ft.)	Purge Rate (ml/min)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1155	14.05	75	14.5	4.867	1.63	6.65	45.1	198.04	
1200	14.09	75	20.2	4.490	.59	6.60	13.8	130.78	
1205	14.08		20.2	4.289	.52	6.59	-3.6	118.53	
1210	14.07		20.3	4.192	.50	6.56	-13.7	100.54	
1215	14.07		20.3	4.112	.45	6.54	-21.2	80.01	
1220	14.08		20.3	4.070	.42	6.54	-22.8	66.27	
1225	14.06		20.3	4.036	.39	6.54	-31.8	58.72	
1230	14.06		20.3	4.007	.36	6.54	-34.8	47.6	
1235	14.08		20.0	4.006	.37	6.53	-36.2	43.2	
1240	14.07		20.0	4.001	.40	6.54	-39.2	41.3	
 Sampling									
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	
Notes: ORP - oxidation reduction potential mV - millivolt NTU - nephelometric turbidity units ml/min - milliliter per minute mS/cm - MilliSiemens per centimeter mg/L - milligrams per liter Groundwater samples analyzed for									

ATTACMENT B
LABORATORY DATA REPORTS AND DUSRS



ANALYTICAL REPORT

Lab Number:	L2460992
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Patrick Diggins
Phone:	(646) 388-9784
Project Name:	BUD NORTH
Project Number:	200112
Report Date:	11/08/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2460992-01	MW-03_20241018	WATER	NY	10/18/24 12:40	10/18/24
L2460992-02	MW-02_20241018	WATER	NY	10/18/24 13:50	10/18/24
L2460992-03	MW-01_20241018	WATER	NY	10/18/24 15:45	10/18/24
L2460992-04	FB_20241018	WATER	NY	10/18/24 15:00	10/18/24
L2460992-05	MW-0X_20241018	WATER	NY	10/18/24 12:30	10/18/24
L2460992-06	TB_20241018	WATER	NY	10/18/24 00:00	10/18/24

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Case Narrative (continued)

Report Submission

November 08, 2024: This final report includes the results of all requested analyses.

October 30, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

The WG1988740-5 MSD recovery, performed on L2460992-03, is below the acceptance criteria for 4-nitrophenol (9%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Total Metals

The WG1988204-3/-4 MS/MSD recoveries for calcium (250%/330%), potassium (MSD 127%), and sodium (0%/0%), performed on L2460992-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1988204-3/-4 MS/MSD recoveries, performed on L2460992-03, are outside the acceptance criteria for selenium (21%/24%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1988202-3/-4 MS/MSD recoveries for calcium (350%/450%), magnesium (MSD 150%), potassium (136%/174%) and sodium (MSD 260%), performed on L2460992-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

Cyanide, Total

The WG1989134-4 MS recovery, performed on L2460992-03, is outside the acceptance criteria for cyanide, total (138%); however, the associated LCS recovery is within criteria. No further action was taken.

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Case Narrative (continued)

Chromium, Hexavalent

L2460992-03: The sample has an elevated detection limit due to the dilution required by the sample matrix. The WG1986390-4/-5 MS/MSD recoveries, performed on L2460992-03, are outside the acceptance criteria for chromium, hexavalent (37%/35%); however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 11/08/24

ORGANICS

VOLATILES

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 10/25/24 01:48
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 10/25/24 02:12
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	2.3		ug/l	0.50	0.16	1
Toluene	0.77	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	15		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 10/25/24 02:37
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.3		ug/l	0.50	0.16	1
Toluene	0.93	J	ug/l	2.5	0.70	1
Ethylbenzene	1.1	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	1.1	J	ug/l	2.5	0.70	1
o-Xylene	0.97	J	ug/l	2.5	0.70	1
Xylenes, Total	2.1	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.7		ug/l	5.0	1.5	1
Carbon disulfide	2.4	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	29		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 10/25/24 03:01

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 10/25/24 03:25
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.6		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	12		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-06

Date Collected: 10/18/24 00:00

Client ID: TB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 10/25/24 03:49

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-06

Date Collected: 10/18/24 00:00

Client ID: TB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-06

Date Collected: 10/18/24 00:00

Client ID: TB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/24/24 20:08
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1988958-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/24/24 20:08
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1988958-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/24/24 20:08
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1988958-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1988958-3 WG1988958-4								
Methylene chloride	97		96		70-130	1		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	97		96		70-130	1		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	98		98		70-130	0		20
Dibromochloromethane	92		93		63-130	1		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	99		98		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	98		96		67-130	2		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	89		95		54-136	7		20
1,1,2,2-Tetrachloroethane	91		95		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	120		110		64-130	9		20
Bromomethane	80		81		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1988958-3 WG1988958-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		99		70-130	1		20
1,2-Dichlorobenzene	97		98		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	99		98		70-130	1		20
Methyl tert butyl ether	92		91		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		93		70-130	4		20
Dibromomethane	94		94		70-130	0		20
1,2,3-Trichloropropane	90		91		64-130	1		20
Acrylonitrile	90		97		70-130	7		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	110		84		58-148	27	Q	20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		94		63-138	16		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	92		96		59-130	4		20
2-Hexanone	94		91		57-130	3		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1988958-3 WG1988958-4								
Bromochloromethane	98		99		70-130	1		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	92		94		70-130	2		20
1,3-Dichloropropane	98		98		70-130	0		20
1,1,1,2-Tetrachloroethane	96		97		64-130	1		20
Bromobenzene	99		98		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	84		93		41-144	10		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	87		92		70-130	6		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	92		96		70-130	4		20
1,2,4-Trichlorobenzene	96		96		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	86		84		56-162	2		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1988958-3 WG1988958-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		20
Ethyl ether	95		98		59-134	3		20
trans-1,4-Dichloro-2-butene	92		97		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	103		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1988958-6 WG1988958-7 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Methylene chloride	ND	10	10	100		9.6	96		70-130	4		20
1,1-Dichloroethane	ND	10	11	110		10	100		70-130	10		20
Chloroform	ND	10	11	110		10	100		70-130	10		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	10	100		9.8	98		70-130	2		20
Dibromochloromethane	ND	10	9.7	97		9.0	90		63-130	7		20
1,1,2-Trichloroethane	ND	10	9.8	98		9.2	92		70-130	6		20
Tetrachloroethene	ND	10	11	110		9.9	99		70-130	11		20
Chlorobenzene	ND	10	10	100		9.4	94		75-130	6		20
Trichlorofluoromethane	ND	10	12	120		11	110		62-150	9		20
1,2-Dichloroethane	ND	10	11	110		10	100		70-130	10		20
1,1,1-Trichloroethane	ND	10	12	120		11	110		67-130	9		20
Bromodichloromethane	ND	10	10	100		9.8	98		67-130	2		20
trans-1,3-Dichloropropene	ND	10	9.0	90		8.5	85		70-130	6		20
cis-1,3-Dichloropropene	ND	10	9.8	98		9.5	95		70-130	3		20
1,1-Dichloropropene	ND	10	12	120		11	110		70-130	9		20
Bromoform	ND	10	9.0	90		8.7	87		54-136	3		20
1,1,2,2-Tetrachloroethane	ND	10	9.2	92		8.9	89		67-130	3		20
Benzene	4.3	10	15	107		16	117		70-130	6		20
Toluene	0.93J	10	11	110		10	100		70-130	10		20
Ethylbenzene	1.1J	10	12	120		11	110		70-130	9		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	7.6	76		7.6	76		39-139	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1988958-6 WG1988958-7 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Vinyl chloride	ND	10	13	130		12	120		55-140	8		20
Chloroethane	ND	10	12	120		11	110		55-138	9		20
1,1-Dichloroethene	ND	10	13	130		11	110		61-145	17		20
trans-1,2-Dichloroethene	ND	10	11	110		10	100		70-130	10		20
Trichloroethene	ND	10	11	110		10	100		70-130	10		20
1,2-Dichlorobenzene	ND	10	9.8	98		9.3	93		70-130	5		20
1,3-Dichlorobenzene	ND	10	9.9	99		9.4	94		70-130	5		20
1,4-Dichlorobenzene	ND	10	9.8	98		9.2	92		70-130	6		20
Methyl tert butyl ether	ND	10	9.9	99		9.4	94		63-130	5		20
p/m-Xylene	1.1J	20	23	115		20	100		70-130	14		20
o-Xylene	0.97J	20	22	110		20	100		70-130	10		20
cis-1,2-Dichloroethene	ND	10	10	100		9.9	99		70-130	1		20
Dibromomethane	ND	10	9.9	99		9.4	94		70-130	5		20
1,2,3-Trichloropropane	ND	10	9.1	91		9.0	90		64-130	1		20
Acrylonitrile	ND	10	9.5	95		9.1	91		70-130	4		20
Styrene	ND	20	21	105		19	95		70-130	10		20
Dichlorodifluoromethane	ND	10	13	130		12	120		36-147	8		20
Acetone	5.7	10	15	93		9.8	41	Q	58-148	42	Q	20
Carbon disulfide	2.4J	10	14	140	Q	15	150	Q	51-130	7		20
2-Butanone	ND	10	11	110		9.1	91		63-138	19		20
Vinyl acetate	ND	10	9.9	99		9.4	94		70-130	5		20
4-Methyl-2-pentanone	ND	10	9.8	98		9.5	95		59-130	3		20
2-Hexanone	ND	10	9.3	93		9.0	90		57-130	3		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1988958-6 WG1988958-7 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Bromochloromethane	ND	10	10	100		9.9	99		70-130	1		20
2,2-Dichloropropane	ND	10	11	110		10	100		63-133	10		20
1,2-Dibromoethane	ND	10	9.6	96		9.0	90		70-130	6		20
1,3-Dichloropropane	ND	10	9.9	99		9.3	93		70-130	6		20
1,1,1,2-Tetrachloroethane	ND	10	9.9	99		9.2	92		64-130	7		20
Bromobenzene	ND	10	9.7	97		9.1	91		70-130	6		20
n-Butylbenzene	ND	10	11	110		9.8	98		53-136	12		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
o-Chlorotoluene	ND	10	10	100		9.5	95		70-130	5		20
p-Chlorotoluene	ND	10	10	100		9.6	96		70-130	4		20
1,2-Dibromo-3-chloropropane	ND	10	9.0	90		9.0	90		41-144	0		20
Hexachlorobutadiene	ND	10	10	100		10	100		63-130	0		20
Isopropylbenzene	ND	10	11	110		10	100		70-130	10		20
p-Isopropyltoluene	ND	10	11	110		10	100		70-130	10		20
Naphthalene	29	10	44	150	Q	42	130		70-130	5		20
n-Propylbenzene	ND	10	11	110		9.8	98		69-130	12		20
1,2,3-Trichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
1,2,4-Trichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
1,3,5-Trimethylbenzene	ND	10	11	110		10	100		64-130	10		20
1,2,4-Trimethylbenzene	ND	10	11	110		10	100		70-130	10		20
1,4-Dioxane	ND	500	400	80		450	90		56-162	12		20
p-Diethylbenzene	ND	10	10	100		9.7	97		70-130	3		20

Matrix Spike Analysis*Batch Quality Control***Project Name:** BUD NORTH**Project Number:** 200112**Lab Number:** L2460992**Report Date:** 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1988958-6 WG1988958-7 QC Sample: L2460992-03 Client ID: MW-01_20241018												
p-Ethyltoluene	ND	10	11	110		10	100		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	10	100		9.7	97		70-130	3		20
Ethyl ether	ND	10	11	110		9.2	92		59-134	18		20
trans-1,4-Dichloro-2-butene	ND	10	7.8	78		7.8	78		70-130	0		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	105		105		70-130
Toluene-d8	101		100		70-130

SEMIVOLATILES

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/25/24 04:47
 Analyst: LJG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.38	1
Carbazole	ND		ug/l	2.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	75		41-149

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 10/25/24 13:45
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10	J	ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	0.08	J	ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	0.05	J	ug/l	0.10	0.03	1
Phenanthrene	0.07	J	ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	0.07	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	83		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/25/24 05:11
 Analyst: LJG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	0.83	J	ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	6.7		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.38	1
Carbazole	7.6		ug/l	2.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	78		41-149

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 10/25/24 14:02
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	4.6		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	4.6		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	7.2		ug/l	0.10	0.02	1
Benzo(a)anthracene	0.38		ug/l	0.10	0.03	1
Benzo(a)pyrene	0.14		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.18		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	0.09	J	ug/l	0.10	0.03	1
Chrysene	0.20		ug/l	0.10	0.03	1
Acenaphthylene	0.70		ug/l	0.10	0.02	1
Anthracene	3.4		ug/l	0.10	0.02	1
Benzo(ghi)perylene	0.09	J	ug/l	0.10	0.02	1
Fluorene	9.1		ug/l	0.10	0.03	1
Phenanthrene	24		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	0.10	J	ug/l	0.10	0.02	1
Pyrene	3.0		ug/l	0.10	0.04	1
2-Methylnaphthalene	1.7		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	100		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/25/24 06:22
 Analyst: LJG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	0.80	J	ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	4.3		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	0.38	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	1.6	J	ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	0.85	J	ug/l	2.0	0.38	1
Carbazole	6.7		ug/l	2.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	35		10-120
4-Terphenyl-d14	74		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 10/25/24 14:52
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	5.5		ug/l	0.10	0.02	1
2-Chloronaphthalene	0.03	J	ug/l	0.20	0.02	1
Fluoranthene	4.3		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	18		ug/l	0.10	0.02	1
Benzo(a)anthracene	0.27		ug/l	0.10	0.03	1
Benzo(a)pyrene	0.15		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.19		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.03	1
Chrysene	0.17		ug/l	0.10	0.03	1
Acenaphthylene	0.11		ug/l	0.10	0.02	1
Anthracene	2.8		ug/l	0.10	0.02	1
Benzo(ghi)perylene	0.11		ug/l	0.10	0.02	1
Fluorene	8.0		ug/l	0.10	0.03	1
Phenanthrene	21		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	0.11		ug/l	0.10	0.02	1
Pyrene	2.9		ug/l	0.10	0.04	1
2-Methylnaphthalene	2.2		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	0.05	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-03

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	96		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04
 Client ID: FB_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:00
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/25/24 06:46
 Analyst: LJG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	2.2	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Benzoic Acid	14.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.38	1
Carbazole	ND		ug/l	2.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	61		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 10/24/24 17:36

Analytical Date: 10/25/24 12:38

Analyst: RP

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04
Client ID: FB_20241018
Sample Location: NY

Date Collected: 10/18/24 15:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	117		10-120
4-Terphenyl-d14	85		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/25/24 07:10
 Analyst: LJG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	0.66	J	ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	5.9		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.38	1
Carbazole	5.7		ug/l	2.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	15	Q	21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	23		10-120
4-Terphenyl-d14	70		41-149

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 10/25/24 15:09
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.9		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	3.7		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	6.4		ug/l	0.10	0.02	1
Benzo(a)anthracene	0.17		ug/l	0.10	0.03	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.06	J	ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	0.09	J	ug/l	0.10	0.03	1
Acenaphthylene	0.58		ug/l	0.10	0.02	1
Anthracene	3.1		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	8.4		ug/l	0.10	0.03	1
Phenanthrene	23		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	2.4		ug/l	0.10	0.04	1
2-Methylnaphthalene	1.6		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-05

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	19	Q	21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	95		41-149

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/25/24 02:49
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1988740-1					
Acenaphthene	ND		ug/l	2.0	0.40
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.98
Hexachlorobenzene	ND		ug/l	2.0	0.45
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
2-Chloronaphthalene	ND		ug/l	2.0	0.35
1,2-Dichlorobenzene	ND		ug/l	2.0	0.33
1,3-Dichlorobenzene	ND		ug/l	2.0	0.32
1,4-Dichlorobenzene	ND		ug/l	2.0	0.39
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Fluoranthene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Hexachloroethane	ND		ug/l	2.0	0.20
Isophorone	ND		ug/l	5.0	0.86
Naphthalene	ND		ug/l	2.0	0.54
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	ND		ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/25/24 02:49
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1988740-1					
Dimethyl phthalate	ND		ug/l	5.0	0.92
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.37
Benzo(b)fluoranthene	ND		ug/l	2.0	0.53
Benzo(k)fluoranthene	ND		ug/l	2.0	0.62
Chrysene	ND		ug/l	2.0	0.22
Acenaphthylene	ND		ug/l	2.0	0.32
Anthracene	ND		ug/l	2.0	0.47
Benzo(ghi)perylene	ND		ug/l	2.0	0.37
Fluorene	ND		ug/l	2.0	0.44
Phenanthrene	ND		ug/l	2.0	0.42
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.29
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.48
Pyrene	ND		ug/l	2.0	0.41
Biphenyl	ND		ug/l	2.0	0.20
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
2-Methylnaphthalene	ND		ug/l	2.0	0.37
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24
Acetophenone	ND		ug/l	5.0	0.92
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/25/24 02:49
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1988740-1					
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
Pentachlorophenol	ND		ug/l	10	2.5
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.38
Carbazole	ND		ug/l	2.0	0.31

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	81		41-149

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 10/25/24 09:16
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1988751-1					
Acenaphthene	ND		ug/l	0.10	0.02
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.03
Hexachlorobutadiene	ND		ug/l	0.50	0.02
Naphthalene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.10	0.03
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03
Chrysene	ND		ug/l	0.10	0.03
Acenaphthylene	ND		ug/l	0.10	0.02
Anthracene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.02
Fluorene	ND		ug/l	0.10	0.03
Phenanthrene	ND		ug/l	0.10	0.04
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.03
Pentachlorophenol	ND		ug/l	0.80	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.02

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 10/25/24 09:16
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 17:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1988751-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	90		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1988740-2 WG1988740-3								
Acenaphthene	75		51		37-111	38	Q	30
1,2,4-Trichlorobenzene	67		49		39-98	31	Q	30
Hexachlorobenzene	73		50		40-140	37	Q	30
Bis(2-chloroethyl)ether	73		50		40-140	37	Q	30
2-Chloronaphthalene	68		48		40-140	34	Q	30
1,2-Dichlorobenzene	65		48		40-140	30		30
1,3-Dichlorobenzene	65		46		40-140	34	Q	30
1,4-Dichlorobenzene	66		48		36-97	32	Q	30
3,3'-Dichlorobenzidine	83		53		40-140	44	Q	30
2,4-Dinitrotoluene	79		52		48-143	41	Q	30
2,6-Dinitrotoluene	75		49		40-140	42	Q	30
Fluoranthene	79		51		40-140	43	Q	30
4-Chlorophenyl phenyl ether	74		49		40-140	41	Q	30
4-Bromophenyl phenyl ether	72		48		40-140	40	Q	30
Bis(2-chloroisopropyl)ether	73		54		40-140	30		30
Bis(2-chloroethoxy)methane	77		53		40-140	37	Q	30
Hexachlorobutadiene	62		45		40-140	32	Q	30
Hexachlorocyclopentadiene	50		36	Q	40-140	33	Q	30
Hexachloroethane	65		48		40-140	30		30
Isophorone	72		51		40-140	34	Q	30
Naphthalene	67		48		40-140	33	Q	30
Nitrobenzene	73		53		40-140	32	Q	30
NDPA/DPA	80		53		40-140	41	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1988740-2 WG1988740-3								
n-Nitrosodi-n-propylamine	74		52		29-132	35	Q	30
Bis(2-ethylhexyl)phthalate	72		46		40-140	44	Q	30
Butyl benzyl phthalate	75		50		40-140	40	Q	30
Di-n-butylphthalate	72		46		40-140	44	Q	30
Di-n-octylphthalate	72		46		40-140	44	Q	30
Diethyl phthalate	75		51		40-140	38	Q	30
Dimethyl phthalate	72		50		40-140	36	Q	30
Benzo(a)anthracene	80		51		40-140	44	Q	30
Benzo(a)pyrene	89		57		40-140	44	Q	30
Benzo(b)fluoranthene	86		53		40-140	47	Q	30
Benzo(k)fluoranthene	89		56		40-140	46	Q	30
Chrysene	82		52		40-140	45	Q	30
Acenaphthylene	70		48		45-123	37	Q	30
Anthracene	79		51		40-140	43	Q	30
Benzo(ghi)perylene	87		54		40-140	47	Q	30
Fluorene	78		52		40-140	40	Q	30
Phenanthrene	79		52		40-140	41	Q	30
Dibenzo(a,h)anthracene	86		53		40-140	47	Q	30
Indeno(1,2,3-cd)pyrene	83		52		40-140	46	Q	30
Pyrene	80		52		26-127	42	Q	30
Biphenyl	74		51		40-140	37	Q	30
4-Chloroaniline	63		45		40-140	33	Q	30
2-Nitroaniline	74		51	Q	52-143	37	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1988740-2 WG1988740-3								
3-Nitroaniline	80		53		25-145	41	Q	30
4-Nitroaniline	84		54		51-143	43	Q	30
Dibenzofuran	74		51		40-140	37	Q	30
2-Methylnaphthalene	70		49		40-140	35	Q	30
1,2,4,5-Tetrachlorobenzene	67		49		2-134	31	Q	30
Acetophenone	77		56		39-129	32	Q	30
2,4,6-Trichlorophenol	66		46		30-130	36	Q	30
p-Chloro-m-cresol	75		51		23-97	38	Q	30
2-Chlorophenol	70		50		27-123	33	Q	30
2,4-Dichlorophenol	71		51		30-130	33	Q	30
2,4-Dimethylphenol	66		45		30-130	38	Q	30
2-Nitrophenol	74		52		30-130	35	Q	30
4-Nitrophenol	54		39		10-80	32	Q	30
2,4-Dinitrophenol	105		92		20-130	13		30
4,6-Dinitro-o-cresol	82		60		20-164	31	Q	30
Pentachlorophenol	70		47		9-103	39	Q	30
Phenol	40		27		12-110	39	Q	30
2-Methylphenol	65		47		30-130	32	Q	30
3-Methylphenol/4-Methylphenol	65		46		30-130	34	Q	30
2,4,5-Trichlorophenol	72		48		30-130	40	Q	30
Benzoic Acid	71		68		10-164	4		30
Benzyl Alcohol	68		48		26-116	34	Q	30
Carbazole	80		52	Q	55-144	42	Q	30

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1988740-2 WG1988740-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		34		21-120
Phenol-d6	36		24		10-120
Nitrobenzene-d5	73		53		23-120
2-Fluorobiphenyl	68		48		15-120
2,4,6-Tribromophenol	68		47		10-120
4-Terphenyl-d14	76		49		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1988751-2 WG1988751-3								
Acenaphthene	80		76		40-140	5		40
2-Chloronaphthalene	63		61		40-140	3		40
Fluoranthene	78		72		40-140	8		40
Hexachlorobutadiene	70		71		40-140	1		40
Naphthalene	72		71		40-140	1		40
Benzo(a)anthracene	98		90		40-140	9		40
Benzo(a)pyrene	92		85		40-140	8		40
Benzo(b)fluoranthene	87		79		40-140	10		40
Benzo(k)fluoranthene	87		82		40-140	6		40
Chrysene	89		81		40-140	9		40
Acenaphthylene	69		66		40-140	4		40
Anthracene	85		80		40-140	6		40
Benzo(ghi)perylene	100		90		40-140	11		40
Fluorene	75		70		40-140	7		40
Phenanthrene	84		79		40-140	6		40
Dibenzo(a,h)anthracene	107		96		40-140	11		40
Indeno(1,2,3-cd)pyrene	108		98		40-140	10		40
Pyrene	78		71		40-140	9		40
2-Methylnaphthalene	67		66		40-140	2		40
Pentachlorophenol	129		126		40-140	2		40
Hexachlorobenzene	98		93		40-140	5		40
Hexachloroethane	75		77		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1988751-2 WG1988751-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		56		21-120
Phenol-d6	42		42		10-120
Nitrobenzene-d5	90		92		23-120
2-Fluorobiphenyl	60		58		15-120
2,4,6-Tribromophenol	146	Q	139	Q	10-120
4-Terphenyl-d14	95		87		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988740-4 WG1988740-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
1,2,4-Trichlorobenzene	ND	20	13	65		13	65		39-98	0		30
Bis(2-chloroethyl)ether	ND	20	14	70		15	75		40-140	7		30
1,2-Dichlorobenzene	ND	20	14	70		13	65		40-140	7		30
1,3-Dichlorobenzene	ND	20	13	65		13	65		40-140	0		30
1,4-Dichlorobenzene	ND	20	13	65		13	65		36-97	0		30
3,3'-Dichlorobenzidine	ND	20	17	85		16	80		40-140	6		30
2,4-Dinitrotoluene	ND	20	16	80		16	80		48-143	0		30
2,6-Dinitrotoluene	ND	20	14	70		14	70		40-140	0		30
4-Chlorophenyl phenyl ether	ND	20	15	75		14	70		40-140	7		30
4-Bromophenyl phenyl ether	ND	20	15	75		14	70		40-140	7		30
Bis(2-chloroisopropyl)ether	ND	20	15	75		15	75		40-140	0		30
Bis(2-chloroethoxy)methane	ND	20	15	75		15	75		40-140	0		30
Hexachlorocyclopentadiene	ND	20	10.3	50		9.83	49		40-140	2		30
Isophorone	ND	20	15	75		15	75		40-140	0		30
Nitrobenzene	ND	20	16	80		15	75		40-140	6		30
NDPA/DPA	ND	20	16	80		16	80		40-140	0		30
n-Nitrosodi-n-propylamine	ND	20	15	75		16	80		29-132	6		30
Bis(2-ethylhexyl)phthalate	ND	20	16	80		16	80		40-140	0		30
Butyl benzyl phthalate	ND	20	18	90		18	90		40-140	0		30
Di-n-butylphthalate	ND	20	16	80		16	80		40-140	0		30
Di-n-octylphthalate	ND	20	16	80		16	80		40-140	0		30
Diethyl phthalate	ND	20	16	80		16	80		40-140	0		30
Dimethyl phthalate	ND	20	15	75		15	75		40-140	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988740-4 WG1988740-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Biphenyl	0.80J	20	16	80		16	80		40-140	0		30
4-Chloroaniline	ND	20	14	70		15	75		40-140	7		30
2-Nitroaniline	ND	20	15	75		15	75		52-143	0		30
3-Nitroaniline	ND	20	16	80		16	80		25-145	0		30
4-Nitroaniline	ND	20	16	80		15	75		51-143	6		30
Dibenzofuran	4.3	20	20	79		20	79		40-140	0		30
1,2,4,5-Tetrachlorobenzene	ND	20	14	70		13	65		2-134	7		30
Acetophenone	ND	20	16	80		16	80		39-129	0		30
2,4,6-Trichlorophenol	ND	20	4.1J	21	Q	2.9J	15	Q	30-130	34	Q	30
p-Chloro-m-cresol	ND	20	12	60		13	65		23-97	8		30
2-Chlorophenol	ND	20	6.0	30		5.4	27		27-123	11		30
2,4-Dichlorophenol	ND	20	6.0	30		5.5	28	Q	30-130	9		30
2,4-Dimethylphenol	ND	20	16	80		16	80		30-130	0		30
2-Nitrophenol	ND	20	5.7J	29	Q	5.0J	25	Q	30-130	13		30
4-Nitrophenol	ND	20	3.0J	15		1.7J	9	Q	10-80	55	Q	30
2,4-Dinitrophenol	ND	20	14.J	70		13.J	65		20-130	7		30
4,6-Dinitro-o-cresol	ND	20	6.4J	32		5.2J	26		20-164	21		30
Phenol	0.38J	20	5.1	26		4.6J	23		12-110	10		30
2-Methylphenol	ND	20	14	70		14	70		30-130	0		30
3-Methylphenol/4-Methylphenol	1.6J	20	12	60		12	60		30-130	0		30
2,4,5-Trichlorophenol	ND	20	5.4	27	Q	4.1J	21	Q	30-130	27		30
Benzoic Acid	ND	20	14.J	70		14.J	70		10-164	0		30
Benzyl Alcohol	0.85J	20	16	80		16	80		26-116	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988740-4 WG1988740-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Carbazole	6.7	20	24	87		25	92		55-144	4		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	25		19		10-120
2-Fluorobiphenyl	67		66		15-120
2-Fluorophenol	17	Q	12	Q	21-120
4-Terphenyl-d14	79		78		41-149
Nitrobenzene-d5	75		76		23-120
Phenol-d6	19		17		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988751-4 WG1988751-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Acenaphthene	5.5	20	22	83		21	78		40-140	5		40
2-Chloronaphthalene	0.03J	20	13	65		13	65		40-140	0		40
Fluoranthene	4.3	20	19	74		18	69		40-140	5		40
Hexachlorobutadiene	ND	20	14	70		13	65		40-140	7		40
Naphthalene	18	20	33	75		26	40		40-140	24		40
Benzo(a)anthracene	0.27	20	21	100		20	99		40-140	5		40
Benzo(a)pyrene	0.15	20	20	99		19	94		40-140	5		40
Benzo(b)fluoranthene	0.19	20	19	94		18	89		40-140	5		40
Benzo(k)fluoranthene	0.06J	20	18	90		17	85		40-140	6		40
Chrysene	0.17	20	18	89		17	84		40-140	6		40
Acenaphthylene	0.11	20	15	74		14	69		40-140	7		40
Anthracene	2.8	20	20	86		19	81		40-140	5		40
Benzo(ghi)perylene	0.11	20	21	100		20	99		40-140	5		40
Fluorene	8.0	20	23	75		22	70		40-140	4		40
Phenanthrene	21	20	38	85		36	75		40-140	5		40
Dibenzo(a,h)anthracene	0.03J	20	22	110		21	110		40-140	5		40
Indeno(1,2,3-cd)pyrene	0.11	20	23	110		22	110		40-140	4		40
Pyrene	2.9	20	18	76		18	76		40-140	0		40
2-Methylnaphthalene	2.2	20	16	69		15	64		40-140	6		40
Pentachlorophenol	ND	20	6.0	30	Q	3.4	17	Q	40-140	55	Q	40
Hexachlorobenzene	0.05J	20	21	110		19	95		40-140	10		40
Hexachloroethane	ND	20	16	80		15	75		40-140	6		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988751-4 WG1988751-5 QC Sample: L2460992-03
Client ID: MW-01_20241018

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	61		42		10-120
2-Fluorobiphenyl	63		60		15-120
2-Fluorophenol	22		16	Q	21-120
4-Terphenyl-d14	98		93		41-149
Nitrobenzene-d5	103		97		23-120
Phenol-d6	26		22		10-120



PETROLEUM HYDROCARBONS

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 10/29/24 07:01
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 10/25/24 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	119		ug/l	31.1	26.1	1
DRO (C10-C28)	115		ug/l	28.3	17.9	1
ORO (C28-C40)	22.6		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		50-130
d50-Tetracosane	84		50-130

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 10/29/24 08:29
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 10/25/24 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	487		ug/l	31.1	26.1	1
DRO (C10-C28)	427		ug/l	28.3	17.9	1
ORO (C28-C40)	72.4		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		50-130
d50-Tetracosane	79		50-130

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 10/29/24 09:56
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 10/25/24 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	312		ug/l	31.1	26.1	1
DRO (C10-C28)	303		ug/l	28.3	17.9	1
ORO (C28-C40)	28.8		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		50-130
d50-Tetracosane	82		50-130

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8015D(M)

Extraction Date: 10/25/24 10:15

Analytical Date: 10/29/24 18:44

Analyst: AMV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	ND		ug/l	31.1	26.1	1
DRO (C10-C28)	ND		ug/l	28.3	17.9	1
ORO (C28-C40)	ND		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		50-130
d50-Tetracosane	72		50-130

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 10/29/24 20:12
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 10/25/24 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	330		ug/l	31.1	26.1	1
DRO (C10-C28)	294		ug/l	28.3	17.9	1
ORO (C28-C40)	42.9		ug/l	10.4	2.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		50-130
d50-Tetracosane	74		50-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/28/24 17:51
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 10/25/24 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Diesel/Other Range Organics by GC-FID - Mansfield Lab for sample(s): 01-05 Batch: WG1989062-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		ug/l	33.0	27.7
DRO (C10-C28)	ND		ug/l	30.0	19.0
ORO (C28-C40)	ND		ug/l	11.0	2.74

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		50-130
d50-Tetracosane	72		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Associated sample(s): 01-05 Batch: WG1989062-2 WG1989062-3								
Nonane (C9)	74		73		50-130	1		30
Decane (C10)	84		82		50-130	2		30
Dodecane (C12)	92		90		50-130	2		30
Tetradecane (C14)	94		93		50-130	1		30
Hexadecane (C16)	98		98		50-130	0		30
Octadecane (C18)	104		104		50-130	0		30
Nonadecane (C19)	102		104		50-130	2		30
Eicosane (C20)	103		103		50-130	0		30
Docosane (C22)	100		100		50-130	0		30
Tetracosane (C24)	106		106		50-130	0		30
Hexacosane (C26)	100		100		50-130	0		30
Octacosane (C28)	102		102		50-130	0		30
Triacontane (C30)	99		99		50-130	0		30
Hexatriacontane (C36)	83		86		50-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	99		97		50-130
d50-Tetracosane	100		97		50-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Client ID: MW-01_20241018												
Associated sample(s): 01-05 QC Batch ID: WG1989062-4 WG1989062-5 QC Sample: L2460992-03												
Nonane (C9)	ND	236	176.6755	75		178.4250	74		50-150	1		30
Decane (C10)	0.5292453J	236	203.5962	86		198.1154	82		50-150	3		30
Dodecane (C12)	ND	236	225.23585	96		213.10962	89		50-150	6		30
Tetradecane (C14)	ND	236	229.55094	97		215.77500	90		50-150	6		30
Hexadecane (C16)	ND	236	238.2679	101		225.6923	94		50-150	5		30
Octadecane (C18)	ND	236	253.2604	107		240.1442	100		50-150	5		30
Nonadecane (C19)	ND	236	286.2000	121		266.7923	111		50-150	7		30
Eicosane (C20)	0.3056604J	236	247.5434	105		235.9038	98		50-150	5		30
Docosane (C22)	ND	236	238.7490	101		228.4038	95		50-150	4		30
Tetracosane (C24)	ND	236	250.6981	106		241.4058	100		50-150	4		30
Hexacosane (C26)	ND	236	231.3245	98		224.7019	93		50-150	3		30
Octacosane (C28)	ND	236	230.8170	98		226.8250	94		50-150	2		30
Triacontane (C30)	ND	236	211.2415	90		212.7942	88		50-150	1		30
Hexatriacontane (C36)	ND	236	132.3924	56		150.9519	63		50-150	13		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
d50-Tetracosane	101		94		50-130
o-Terphenyl	87		82		50-130

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01

Client ID: MW-03_20241018

Sample Location: NY

Date Collected: 10/18/24 12:40

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 135,EPH-19-2.1

Analytical Date: 10/24/24 17:04

Analyst: SYR

Extraction Method: EPA 3510C

Extraction Date: 10/24/24 00:39

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 10/24/24

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C19-C36 Aliphatics	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	76		40-140

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 10/24/24 00:39

Analytical Date: 10/24/24 17:29

Cleanup Method1: EPH-19-2.1

Analyst: SYR

Cleanup Date1: 10/24/24

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C19-C36 Aliphatics	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	75		40-140

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-03

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 10/24/24 00:39

Analytical Date: 10/25/24 09:30

Cleanup Method1: EPH-19-2.1

Analyst: MTC

Cleanup Date1: 10/24/24

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C19-C36 Aliphatics	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	77		40-140

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-04
 Client ID: FB_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:00
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 10/24/24 17:54
 Analyst: SYR

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 00:39
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 10/24/24

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C19-C36 Aliphatics	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	72		40-140

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 10/24/24 18:19
 Analyst: SYR

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 00:39
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 10/24/24

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C19-C36 Aliphatics	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	77		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	88		40-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
 Analytical Date: 10/24/24 14:35
 Analyst: SYR

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 00:39
 Cleanup Method: EPH-19-2.1
 Cleanup Date: 10/24/24

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-05 Batch: WG1988334-1					
C19-C36 Aliphatics	ND		ug/l	100	100.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	75		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	80		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 Batch: WG1988334-2 WG1988334-3								
C9-C18 Aliphatics	45		53		40-140	16		20
C19-C36 Aliphatics	71		79		40-140	11		20
C11-C22 Aromatics	78		81		40-140	4		20
Naphthalene	51		55		40-140	8		20
2-Methylnaphthalene	55		59		40-140	7		20
Acenaphthylene	64		68		40-140	6		20
Acenaphthene	67		72		40-140	7		20
Fluorene	71		76		40-140	7		20
Phenanthrene	74		78		40-140	5		20
Anthracene	89		94		40-140	5		20
Fluoranthene	76		80		40-140	5		20
Pyrene	76		80		40-140	5		20
Benzo(a)anthracene	79		83		40-140	5		20
Chrysene	77		81		40-140	5		20
Benzo(b)fluoranthene	78		82		40-140	5		20
Benzo(k)fluoranthene	76		81		40-140	6		20
Benzo(a)pyrene	89		94		40-140	5		20
Indeno(1,2,3-cd)Pyrene	81		85		40-140	5		20
Dibenzo(a,h)anthracene	77		81		40-140	5		20
Benzo(ghi)perylene	71		73		40-140	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 Batch: WG1988334-2 WG1988334-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	60		68		40-140
o-Terphenyl	76		77		40-140
2-Fluorobiphenyl	76		76		40-140
2-Bromonaphthalene	81		80		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988334-4 WG1988334-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
C9-C18 Aliphatics	ND	600	304	51		282	47		40-140	8		50
C19-C36 Aliphatics	ND	800	627	78		574	72		40-140	9		50
C11-C22 Aromatics	136	1700	1200	62		1080	56		40-140	11		50
Naphthalene	11.1	100	63.7	53		56.4	45		40-140	12		50
2-Methylnaphthalene	ND	100	60.4	60		51.4	51		40-140	16		50
Acenaphthylene	ND	100	64.4	64		54.2	54		40-140	17		50
Acenaphthene	ND	100	68.6	69		58.0	58		40-140	17		50
Fluorene	ND	100	71.8	72		60.9	61		40-140	16		50
Phenanthrene	14.1	100	78.2	64		68.5	54		40-140	13		50
Anthracene	ND	100	83.8	84		72.4	72		40-140	15		50
Fluoranthene	ND	100	71.7	72		63.0	63		40-140	13		50
Pyrene	ND	100	65.8	66		58.0	58		40-140	13		50
Benzo(a)anthracene	ND	100	70.0	70		61.9	62		40-140	12		50
Chrysene	ND	100	66.9	67		60.2	60		40-140	11		50
Benzo(b)fluoranthene	ND	100	62.2	62		56.0	56		40-140	10		50
Benzo(k)fluoranthene	ND	100	62.7	63		56.9	57		40-140	10		50
Benzo(a)pyrene	ND	100	76.1	76		68.8	69		40-140	10		50
Indeno(1,2,3-cd)Pyrene	ND	100	60.1	60		55.6	56		40-140	8		50
Dibenzo(a,h)anthracene	ND	100	57.2	57		55.5	56		40-140	3		50
Benzo(ghi)perylene	ND	100	49.6	50		46.6	47		40-140	6		50

Matrix Spike Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988334-4 WG1988334-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Bromonaphthalene	76		63		40-140
2-Fluorobiphenyl	73		60		40-140
Chloro-Octadecane	67		59		40-140
o-Terphenyl	68		60		40-140



PCBS

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 10/25/24 13:07
 Analyst: MEO

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/25/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 10/25/24 13:17
 Analyst: MEO

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/25/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 10/25/24 13:26
 Analyst: MEO

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/25/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04
Client ID: FB_20241018
Sample Location: NY

Date Collected: 10/18/24 15:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/25/24 13:54
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 21:30
Cleanup Method: EPA 3665A
Cleanup Date: 10/25/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 10/25/24 14:04
 Analyst: MEO

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/25/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/24/24 16:29
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 09:06
Cleanup Method: EPA 3665A
Cleanup Date: 10/24/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1988506-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	50		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1988506-2 WG1988506-3									
Aroclor 1016	56		58		40-140	3		50	A
Aroclor 1260	57		58		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		56		30-150	A
Decachlorobiphenyl	52		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		47		30-150	B
Decachlorobiphenyl	49		52		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988506-4 WG1988506-5 QC Sample: L2460992-03 Client ID: MW-01_20241018													
Aroclor 1016	ND	1.78	1.10	62		1.14	64		40-140	4		50	A
Aroclor 1260	ND	1.78	1.13	63		1.21	68		40-140	7		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	59		64		30-150	A
Decachlorobiphenyl	64		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		57		30-150	B
Decachlorobiphenyl	51		56		30-150	B

PESTICIDES

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01
 Client ID: MW-03_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:40
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 10/25/24 09:55
 Analyst: Ejl

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-01

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02
 Client ID: MW-02_20241018
 Sample Location: NY

Date Collected: 10/18/24 13:50
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 10/25/24 10:06
 Analyst: Ejl

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-02

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03
 Client ID: MW-01_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:45
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 10/25/24 10:18
 Analyst: Ejl

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-03

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8081B

Extraction Date: 10/24/24 07:33

Analytical Date: 10/25/24 10:51

Analyst: Ejl

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS**

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05
 Client ID: MW-0X_20241018
 Sample Location: NY

Date Collected: 10/18/24 12:30
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 10/25/24 11:03
 Analyst: EJJ

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**SAMPLE RESULTS****Lab ID:** L2460992-05**Date Collected:** 10/18/24 12:30**Client ID:** MW-0X_20241018**Date Received:** 10/18/24**Sample Location:** NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/24/24 16:36
Analyst: JAG

Extraction Method: EPA 3510C
Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1988437-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 10/24/24 16:36
 Analyst: JAG

Extraction Method: EPA 3510C
 Extraction Date: 10/24/24 07:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1988437-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1988437-2 WG1988437-3									
Delta-BHC	58		58		30-150	1		20	A
Lindane	66		66		30-150	1		20	A
Alpha-BHC	65		66		30-150	1		20	A
Beta-BHC	63		63		30-150	0		20	A
Heptachlor	64		66		30-150	2		20	A
Aldrin	61		62		30-150	2		20	A
Heptachlor epoxide	65		65		30-150	1		20	A
Endrin	68		69		30-150	2		20	A
Endrin aldehyde	55		56		30-150	1		20	A
Endrin ketone	68		67		30-150	2		20	A
Dieldrin	71		72		30-150	1		20	A
4,4'-DDE	63		65		30-150	3		20	A
4,4'-DDD	69		70		30-150	1		20	A
4,4'-DDT	66		67		30-150	1		20	A
Endosulfan I	64		65		30-150	1		20	A
Endosulfan II	69		68		30-150	1		20	A
Endosulfan sulfate	63		62		30-150	1		20	A
Methoxychlor	68		68		30-150	0		20	A
cis-Chlordane	61		61		30-150	0		20	A
trans-Chlordane	71		71		30-150	1		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1988437-2 WG1988437-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		63		30-150	A
Decachlorobiphenyl	53		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	B
Decachlorobiphenyl	51		51		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab ID: MW-01_20241018 Associated sample(s): 01-05 QC Batch ID: WG1988437-4 WG1988437-5 QC Sample: L2460992-03 Client													
Delta-BHC	ND	0.357	0.269P	75		0.240P	67		30-150	11		30	A
Lindane	ND	0.357	0.289	81		0.280	78		30-150	3		30	A
Alpha-BHC	ND	0.357	0.623P	174	Q	0.656P	184	Q	30-150	5		30	A
Beta-BHC	ND	0.357	0.175	49		0.264	74		30-150	41	Q	30	A
Heptachlor	ND	0.357	0.270P	76		0.252P	71		30-150	7		30	A
Aldrin	ND	0.357	0.165	46		0.218	61		30-150	28		30	A
Heptachlor epoxide	ND	0.357	0.135P	38		0.143P	40		30-150	6		30	A
Endrin	ND	0.357	0.178	50		0.189	53		30-150	6		30	A
Endrin aldehyde	ND	0.357	0.114	32		0.113	32		30-150	1		30	A
Endrin ketone	ND	0.357	0.154	43		0.166	46		30-150	8		30	A
Dieldrin	ND	0.357	0.160	45		0.174	49		30-150	8		30	A
4,4'-DDE	ND	0.357	0.153	43		0.162	45		30-150	6		30	A
4,4'-DDD	ND	0.357	0.148	41		0.159	44		30-150	7		30	A
4,4'-DDT	ND	0.357	0.143	40		0.156	44		30-150	9		30	A
Endosulfan I	ND	0.357	0.150	42		0.155	43		30-150	3		30	A
Endosulfan II	ND	0.357	0.146	41		0.164	46		30-150	12		30	A
Endosulfan sulfate	ND	0.357	0.147	41		0.153	43		30-150	4		30	A
Methoxychlor	ND	0.357	0.163	46		0.161	45		30-150	1		30	A
cis-Chlordane	ND	0.357	0.148	41		0.155	43		30-150	5		30	A
trans-Chlordane	ND	0.357	0.206P	58		0.221P	62		30-150	7		30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1988437-4 WG1988437-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	42		41		30-150	A
Decachlorobiphenyl	36		40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		38		30-150	B
Decachlorobiphenyl	52		53		30-150	B

METALS

Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.02		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00354		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Barium, Total	0.05526		mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00021		mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Calcium, Total	253.		mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Chromium, Total	0.03024		mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.02962		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Copper, Total	0.02258		mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Iron, Total	80.3		mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Lead, Total	0.04148		mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Magnesium, Total	48.6		mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Manganese, Total	1.828		mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 18:19	EPA 7470A	1,7470A	MJR
Nickel, Total	0.02592		mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Potassium, Total	27.2		mg/l	0.100	0.0309	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Sodium, Total	456.		mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.00480	J	mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Zinc, Total	0.05768		mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 18:15	EPA 3005A	1,6020B	SMV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Antimony, Dissolved	0.00053	J	mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Arsenic, Dissolved	0.00069		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Barium, Dissolved	0.03306		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Calcium, Dissolved	241.		mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Chromium, Dissolved	0.00130		mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Cobalt, Dissolved	0.02568		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Iron, Dissolved	50.5		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Magnesium, Dissolved	45.8		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Manganese, Dissolved	1.705		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 13:53	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.01058		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Potassium, Dissolved	25.6		mg/l	0.100	0.0309	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Sodium, Dissolved	430.		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV
Zinc, Dissolved	0.02072		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 15:53	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.283		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Antimony, Total	0.00355	J	mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00713		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Barium, Total	0.04367		mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Calcium, Total	144.		mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00197		mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00142		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Copper, Total	0.00294		mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Iron, Total	0.870		mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Lead, Total	0.00420		mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Magnesium, Total	16.4		mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Manganese, Total	0.1152		mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 18:22	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00469		mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Potassium, Total	26.6		mg/l	0.100	0.0309	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Sodium, Total	174.		mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.00607		mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Zinc, Total	0.01005		mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 18:50	EPA 3005A	1,6020B	SMV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0119		mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Antimony, Dissolved	0.00201	J	mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Arsenic, Dissolved	0.00713		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Barium, Dissolved	0.03862		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Calcium, Dissolved	146.		mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Chromium, Dissolved	0.00029	J	mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Cobalt, Dissolved	0.00134		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Copper, Dissolved	0.00071	J	mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Iron, Dissolved	0.343		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Magnesium, Dissolved	15.6		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Manganese, Dissolved	0.09670		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 13:56	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00402		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Potassium, Dissolved	25.5		mg/l	0.100	0.0309	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Sodium, Dissolved	171.		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Vanadium, Dissolved	0.00519		mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 15:57	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.226		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Antimony, Total	0.01620		mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.01119		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Barium, Total	0.08911		mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Calcium, Total	169.		mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00111		mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00138		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Copper, Total	0.00225		mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Iron, Total	0.774		mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Lead, Total	0.00945		mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Magnesium, Total	44.7		mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Manganese, Total	0.1364		mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 17:42	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00624		mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Potassium, Total	58.2		mg/l	1.00	0.309	10	10/24/24 02:25	10/29/24 18:06	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Sodium, Total	300.		mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.00859		mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Zinc, Total	0.00691	J	mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 16:43	EPA 3005A	1,6020B	SMV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00966	J	mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Antimony, Dissolved	0.01591		mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Arsenic, Dissolved	0.01116		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Barium, Dissolved	0.07669		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Calcium, Dissolved	157.		mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Chromium, Dissolved	0.00041	J	mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Cobalt, Dissolved	0.00113		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Iron, Dissolved	0.340		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Lead, Dissolved	0.00038	J	mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Magnesium, Dissolved	41.2		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Manganese, Dissolved	0.1174		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 13:43	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00476		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Potassium, Dissolved	53.9		mg/l	1.00	0.309	10	10/23/24 17:36	10/29/24 17:11	EPA 3005A	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Sodium, Dissolved	278.		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Vanadium, Dissolved	0.00682		mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 15:29	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Barium, Total	0.00045	J	mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 18:26	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 17:33	EPA 3005A	1,6020B	SMV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Antimony, Dissolved	0.00063	J	mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Calcium, Dissolved	0.0434	J	mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 14:00	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 15:15	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0951		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Antimony, Total	0.00225	J	mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00587		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Barium, Total	0.04602		mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Calcium, Total	147.		mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00081	J	mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00120		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Copper, Total	0.00138		mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Iron, Total	0.668		mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Lead, Total	0.00137		mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Magnesium, Total	18.4		mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Manganese, Total	0.1537		mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 18:29	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00473		mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Potassium, Total	25.9		mg/l	0.100	0.0309	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Sodium, Total	146.		mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.00541		mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 18:55	EPA 3005A	1,6020B	SMV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0150		mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Antimony, Dissolved	0.00227	J	mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Arsenic, Dissolved	0.00566		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Barium, Dissolved	0.04158		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Calcium, Dissolved	146.		mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Chromium, Dissolved	0.00026	J	mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Cobalt, Dissolved	0.00117		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Copper, Dissolved	0.00059	J	mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Iron, Dissolved	0.262		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Magnesium, Dissolved	17.2		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Manganese, Dissolved	0.1386		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 14:13	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00420		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Potassium, Dissolved	24.5		mg/l	0.100	0.0309	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Sodium, Dissolved	140.		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Thallium, Dissolved	0.00019	J	mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Vanadium, Dissolved	0.00487	J	mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 17:07	EPA 3005A	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1988202-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/23/24 17:36	10/29/24 15:10	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1988204-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Barium, Total	ND	mg/l	0.00050	0.00017	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Calcium, Total	ND	mg/l	0.100	0.0394	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Chromium, Total	ND	mg/l	0.00100	0.00017	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Copper, Total	ND	mg/l	0.00100	0.00038	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Iron, Total	ND	mg/l	0.0500	0.0191	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Lead, Total	ND	mg/l	0.00100	0.00034	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Manganese, Total	ND	mg/l	0.00100	0.00044	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Nickel, Total	ND	mg/l	0.00200	0.00055	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Potassium, Total	ND	mg/l	0.100	0.0309	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Selenium, Total	ND	mg/l	0.00500	0.00173	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Silver, Total	ND	mg/l	0.00040	0.00016	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Sodium, Total	ND	mg/l	0.100	0.0293	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Thallium, Total	ND	mg/l	0.00100	0.00014	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV
Zinc, Total	ND	mg/l	0.01000	0.00341	1	10/24/24 02:25	10/29/24 16:14	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1988208-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	10/24/24 02:31	10/25/24 17:35	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1988233-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/23/24 18:58	10/25/24 13:37	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988202-2								
Aluminum, Dissolved	96		-		80-120	-		
Antimony, Dissolved	89		-		80-120	-		
Arsenic, Dissolved	104		-		80-120	-		
Barium, Dissolved	105		-		80-120	-		
Beryllium, Dissolved	105		-		80-120	-		
Cadmium, Dissolved	105		-		80-120	-		
Calcium, Dissolved	96		-		80-120	-		
Chromium, Dissolved	100		-		80-120	-		
Cobalt, Dissolved	101		-		80-120	-		
Copper, Dissolved	105		-		80-120	-		
Iron, Dissolved	109		-		80-120	-		
Lead, Dissolved	105		-		80-120	-		
Magnesium, Dissolved	96		-		80-120	-		
Manganese, Dissolved	101		-		80-120	-		
Nickel, Dissolved	104		-		80-120	-		
Potassium, Dissolved	97		-		80-120	-		
Selenium, Dissolved	103		-		80-120	-		
Silver, Dissolved	101		-		80-120	-		
Sodium, Dissolved	98		-		80-120	-		
Thallium, Dissolved	101		-		80-120	-		
Vanadium, Dissolved	100		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** BUD NORTH**Project Number:** 200112**Lab Number:** L2460992**Report Date:** 11/08/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988202-2					
Zinc, Dissolved	105	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988204-2					
Aluminum, Total	95	-	80-120	-	
Antimony, Total	85	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	110	-	80-120	-	
Cadmium, Total	104	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Chromium, Total	97	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	96	-	80-120	-	
Magnesium, Total	93	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	95	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	95	-	80-120	-	
Thallium, Total	92	-	80-120	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988204-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988208-2					
Mercury, Total	92	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1988233-2					
Mercury, Dissolved	93	-	80-120	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988202-3 WG1988202-4 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Aluminum, Dissolved	0.00966J	2	1.85	92		2.02	101		75-125	9		20
Antimony, Dissolved	0.01591	0.5	0.5024	97		0.5555	108		75-125	10		20
Arsenic, Dissolved	0.01116	0.12	0.1349	103		0.1436	110		75-125	6		20
Barium, Dissolved	0.07669	2	2.057	99		2.253	109		75-125	9		20
Beryllium, Dissolved	ND	0.05	0.04951	99		0.05239	105		75-125	6		20
Cadmium, Dissolved	ND	0.053	0.04959	94		0.05523	104		75-125	11		20
Calcium, Dissolved	157.	10	192	350	Q	202	450	Q	75-125	5		20
Chromium, Dissolved	0.00041J	0.2	0.1846	92		0.2009	100		75-125	8		20
Cobalt, Dissolved	0.00113	0.5	0.4695	94		0.5114	102		75-125	9		20
Copper, Dissolved	ND	0.25	0.2381	95		0.2607	104		75-125	9		20
Iron, Dissolved	0.340	1	1.33	99		1.44	110		75-125	8		20
Lead, Dissolved	0.00038J	0.53	0.5259	99		0.6018	114		75-125	13		20
Magnesium, Dissolved	41.2	10	52.5	113		56.2	150	Q	75-125	7		20
Manganese, Dissolved	0.1174	0.5	0.5993	96		0.6440	105		75-125	7		20
Nickel, Dissolved	0.00476	0.5	0.4752	94		0.5160	102		75-125	8		20
Potassium, Dissolved	53.9	10	67.5	136	Q	71.3	174	Q	75-125	5		20
Selenium, Dissolved	ND	0.12	0.112	93		0.122	102		75-125	9		20
Silver, Dissolved	ND	0.05	0.04521	90		0.04992	100		75-125	10		20
Sodium, Dissolved	278.	10	286	80		304	260	Q	75-125	6		20
Thallium, Dissolved	ND	0.12	0.1153	96		0.1311	109		75-125	13		20
Vanadium, Dissolved	0.00682	0.5	0.4777	94		0.5256	104		75-125	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988202-3 WG1988202-4 QC Sample: L2460992-03 Client ID: MW-01_20241018									
Zinc, Dissolved	ND	0.5	0.4664	93	0.5070	101	75-125	8	20



Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-3 WG1988204-4 QC Sample: L2460992-03 Client ID: MW-01_20241018									
Aluminum, Total	0.226	2	2.19	98	2.28	103	75-125	4	20
Antimony, Total	0.01620	0.5	0.5218	101	0.5507	107	75-125	5	20
Arsenic, Total	0.01119	0.12	0.1341	102	0.1426	110	75-125	6	20
Barium, Total	0.08911	2	2.153	103	2.248	108	75-125	4	20
Beryllium, Total	ND	0.05	0.05270	105	0.05408	108	75-125	3	20
Cadmium, Total	ND	0.053	0.05205	98	0.05521	104	75-125	6	20
Calcium, Total	169.	10	194	250	Q 202	330	Q 75-125	4	20
Chromium, Total	0.00111	0.2	0.1908	95	0.1995	99	75-125	4	20
Cobalt, Total	0.00138	0.5	0.4844	97	0.5014	100	75-125	3	20
Copper, Total	0.00225	0.25	0.2474	98	0.2608	103	75-125	5	20
Iron, Total	0.774	1	1.97	120	1.87	110	75-125	5	20
Lead, Total	0.00945	0.53	0.5413	100	0.5877	109	75-125	8	20
Magnesium, Total	44.7	10	54.0	93	56.1	114	75-125	4	20
Manganese, Total	0.1364	0.5	0.6244	98	0.6480	102	75-125	4	20
Nickel, Total	0.00624	0.5	0.4855	96	0.5100	101	75-125	5	20
Potassium, Total	58.2	10	67.8	96	70.9	127	Q 75-125	4	20
Selenium, Total	ND	0.12	0.0254J	21	Q 0.0288J	24	Q 75-125	13	20
Silver, Total	ND	0.05	0.04694	94	0.05035	101	75-125	7	20
Sodium, Total	300.	10	293	0	Q 300	0	Q 75-125	2	20
Thallium, Total	ND	0.12	0.1164	97	0.1265	105	75-125	8	20
Vanadium, Total	0.00859	0.5	0.4920	97	0.5106	100	75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-3 WG1988204-4 QC Sample: L2460992-03 Client ID: MW-01_20241018									
Zinc, Total	0.00691J	0.5	0.4894	98	0.5136	103	75-125	5	20



Matrix Spike Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-7 WG1988204-8 QC Sample: L2461164-07 Client ID: MS Sample									
Aluminum, Total	0.006J	2	1.95	98	1.99	100	75-125	2	20
Antimony, Total	0.0004J	0.5	0.4659	93	0.4788	96	75-125	3	20
Arsenic, Total	0.00160	0.12	0.1278	105	0.1278	105	75-125	0	20
Barium, Total	0.04646	2	2.148	105	2.168	106	75-125	1	20
Beryllium, Total	ND	0.05	0.05293	106	0.05437	109	75-125	3	20
Cadmium, Total	ND	0.053	0.05467	103	0.05514	104	75-125	1	20
Calcium, Total	43.7	10	54.9	112	56.0	123	75-125	2	20
Chromium, Total	ND	0.2	0.1934	97	0.1967	98	75-125	2	20
Cobalt, Total	0.0004J	0.5	0.4934	99	0.5016	100	75-125	2	20
Copper, Total	0.00060J	0.25	0.2559	102	0.2570	103	75-125	0	20
Iron, Total	0.439	1	1.49	105	1.52	108	75-125	2	20
Lead, Total	ND	0.53	0.5426	102	0.5522	104	75-125	2	20
Magnesium, Total	7.25	10	17.0	98	17.3	100	75-125	2	20
Manganese, Total	0.04630	0.5	0.5396	99	0.5506	101	75-125	2	20
Nickel, Total	0.0007J	0.5	0.4999	100	0.5045	101	75-125	1	20
Potassium, Total	5.48	10	15.2	97	15.4	99	75-125	1	20
Selenium, Total	ND	0.12	0.124	103	0.125	104	75-125	1	20
Silver, Total	ND	0.05	0.04885	98	0.04948	99	75-125	1	20
Sodium, Total	146.	10	158	120	161	150	Q 75-125	2	20
Thallium, Total	ND	0.12	0.1172	98	0.1198	100	75-125	2	20
Vanadium, Total	ND	0.5	0.4828	96	0.4974	99	75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1988204-7		WG1988204-8	QC Sample: L2461164-07		Client ID: MS Sample	
Zinc, Total	ND	0.5	0.5138	103	0.5154	103	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1988208-3		WG1988208-4	QC Sample: L2460992-03		Client ID: MW-01_20241018	
Mercury, Total	ND	0.005	0.00499	100	0.00500	100	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1988208-5		WG1988208-6	QC Sample: L2461164-07		Client ID: MS Sample	
Mercury, Total	ND	0.005	0.00495	99	0.00483	97	75-125	3	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1988233-3		WG1988233-4	QC Sample: L2460992-03		Client ID: MW-01_20241018	
Mercury, Dissolved	ND	0.005	0.00487	97	0.00491	98	75-125	1	20

Project Name: BUD NORTH
Project Number: 200112

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988202-6 QC Sample: L2460992-03 Client ID: MW-01_20241018						
Barium, Dissolved	0.07669	0.07738	mg/l	1		20
Calcium, Dissolved	157.	176.	mg/l	12		20
Magnesium, Dissolved	41.2	42.3	mg/l	3		20
Manganese, Dissolved	0.1174	0.1236	mg/l	5		20
Sodium, Dissolved	278.	271.	mg/l	3		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988202-6 QC Sample: L2460992-03 Client ID: MW-01_20241018						
Potassium, Dissolved	53.9	53.6	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-10 QC Sample: L2461164-07 Client ID: DUP Sample						
Barium, Total	0.04646	0.04697	mg/l	1		20
Calcium, Total	43.7	44.2	mg/l	1		20
Manganese, Total	0.04630	0.04849	mg/l	5		20
Sodium, Total	146.	145.	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-6 QC Sample: L2460992-03 Client ID: MW-01_20241018						
Barium, Total	0.08911	0.08715	mg/l	2		20
Calcium, Total	169.	186.	mg/l	10		20
Magnesium, Total	44.7	44.6	mg/l	0		20
Manganese, Total	0.1364	0.1408	mg/l	3		20
Sodium, Total	300.	284.	mg/l	5		20

Project Name: BUD NORTH
Project Number: 200112

Lab Serial Dilution
Analysis
Batch Quality Control

Lab Number: L2460992
Report Date: 11/08/24

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1988204-6 QC Sample: L2460992-03 Client ID: MW-01_20241018					
Potassium, Total	58.2	60.0	mg/l	3	20



INORGANICS & MISCELLANEOUS

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-01

Client ID: MW-03_20241018

Sample Location: NY

Date Collected: 10/18/24 12:40

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.203		mg/l	0.005	0.001	1	10/25/24 13:50	10/25/24 16:36	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/19/24 05:30	10/19/24 06:09	1,7196A	CAR



Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-02

Client ID: MW-02_20241018

Sample Location: NY

Date Collected: 10/18/24 13:50

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.835		mg/l	0.010	0.003	2	10/25/24 13:50	10/25/24 17:25	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/19/24 05:30	10/19/24 06:09	1,7196A	CAR



Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-03

Client ID: MW-01_20241018

Sample Location: NY

Date Collected: 10/18/24 15:45

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.714		mg/l	0.010	0.003	2	10/25/24 13:50	10/25/24 17:26	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.050	0.015	5	10/19/24 05:30	10/19/24 06:09	1,7196A	CAR



Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-04

Client ID: FB_20241018

Sample Location: NY

Date Collected: 10/18/24 15:00

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/25/24 13:50	10/25/24 17:23	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/19/24 05:30	10/19/24 06:11	1,7196A	CAR



Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2460992-05

Client ID: MW-0X_20241018

Sample Location: NY

Date Collected: 10/18/24 12:30

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.561		mg/l	0.010	0.003	2	10/25/24 13:50	10/25/24 17:29	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/19/24 05:30	10/19/24 06:12	1,7196A	CAR



Project Name: BUD NORTH

Lab Number: L2460992

Project Number: 200112

Report Date: 11/08/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1986390-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/19/24 05:30	10/19/24 06:07	1,7196A	CAR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1989134-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/25/24 13:50	10/25/24 16:22	1,9010C/9012B	JER

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1986390-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1989134-2 WG1989134-3								
Cyanide, Total	88		90		85-115	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2460992

Report Date: 11/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1986390-4 WG1986390-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Chromium, Hexavalent	ND	0.1	0.037J	37	Q	0.035J	35	Q	85-115	6		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1989134-4 WG1989134-5 QC Sample: L2460992-03 Client ID: MW-01_20241018												
Cyanide, Total	0.714	0.2	0.990	138	Q	0.887	86		80-120	11		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1989134-6 WG1989134-7 QC Sample: L2460898-07 Client ID: MS Sample												
Cyanide, Total	0.002J	0.2	0.186	93		0.184	92		80-120	1		20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** BUD NORTH**Project Number:** 200112**Lab Number:** L2460992**Report Date:** 11/08/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1986390-3 QC Sample: L2460992-03 Client ID: MW-01_20241018						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: BUD NORTH**Lab Number:** L2460992**Project Number:** 200112**Report Date:** 11/08/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler Custody Seal**

A	Absent
B	Absent
C	Absent
D	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-01A	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-01B	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-01C	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-01D	Amber 100ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-01E	Amber 100ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-01F	Amber 120ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2460992-01G	Amber 120ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2460992-01H	Amber 120ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2460992-01J	Amber 120ml unpreserved	E	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2460992-01K	Plastic 250ml unpreserved	E	7	7	2.0	Y	Absent		HEXCR-7196(1)
L2460992-01L	Plastic 250ml unpreserved	E	7	7	2.0	Y	Absent		-
L2460992-01M	Plastic 250ml HNO3 preserved	E	<2	<2	2.0	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2460992-01N	Plastic 250ml NaOH preserved	E	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2460992-01O	Amber 1L unpreserved	E	7	7	2.0	Y	Absent		A2-TPHDRO/ORO(7)

Project Name: BUD NORTH
Project Number: 200112

Serial_No:11082414:54
Lab Number: L2460992
Report Date: 11/08/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-01P	Amber 1L unpreserved	E	7	7	2.0	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-01Q	Amber 1L HCl preserved	E	<2	<2	2.0	Y	Absent		EPH-20(14)
L2460992-01R	Amber 1L HCl preserved	E	<2	<2	2.0	Y	Absent		EPH-20(14)
L2460992-01X	Plastic 120ml HNO3 preserved Filtrates	E	NA		2.0	Y	Absent		CU-6020S(180),V-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),PB-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2460992-02A	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-02B	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-02C	Vial HCl preserved	E	NA		2.0	Y	Absent		NYTCL-8260(14)
L2460992-02D	Amber 100ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-02E	Amber 100ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-02F	Amber 120ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8081(7)
L2460992-02G	Amber 120ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8081(7)
L2460992-02H	Amber 120ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2460992-02J	Amber 120ml unpreserved	E	8	8	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2460992-02K	Plastic 250ml unpreserved	E	8	8	2.0	Y	Absent		HEXCR-7196(1)
L2460992-02L	Plastic 250ml unpreserved	E	8	8	2.0	Y	Absent		-
L2460992-02M	Plastic 250ml HNO3 preserved	E	<2	<2	2.0	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2460992-02N	Plastic 250ml NaOH preserved	E	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2460992-02O	Amber 1L unpreserved	E	8	8	2.0	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-02P	Amber 1L unpreserved	E	8	8	2.0	Y	Absent		A2-TPHDRO/ORO(7)

Project Name: BUD NORTH
Project Number: 200112

Serial_No:11082414:54
Lab Number: L2460992
Report Date: 11/08/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-02Q	Amber 1L HCl preserved	E	<2	<2	2.0	Y	Absent		EPH-20(14)
L2460992-02R	Amber 1L HCl preserved	E	<2	<2	2.0	Y	Absent		EPH-20(14)
L2460992-02X	Plastic 120ml HNO3 preserved Filtrates	E	NA		2.0	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CO-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),BA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2460992-03A	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03A1	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03A2	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-03B	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03B1	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03B2	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-03C	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03C1	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-03C2	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-03D	Amber 100ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03D1	Amber 100ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03D2	Amber 100ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03E	Amber 100ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03E1	Amber 100ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03E2	Amber 100ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-03F	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8081(7)
L2460992-03F1	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8081(7)
L2460992-03F2	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8081(7)
L2460992-03G	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8081(7)

Project Name: BUD NORTH
Project Number: 200112

Serial_No:11082414:54
Lab Number: L2460992
Report Date: 11/08/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-03G1	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8081(7)
L2460992-03G2	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8081(7)
L2460992-03H	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03H1	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03H2	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03J	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03J1	Amber 120ml unpreserved	C	8	8	1.9	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03J2	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2460992-03K	Plastic 250ml unpreserved	C	8	8	1.9	Y	Absent		HEXCR-7196(1)
L2460992-03K1	Plastic 250ml unpreserved	C	8	8	1.9	Y	Absent		HEXCR-7196(1)
L2460992-03K2	Plastic 250ml unpreserved	D	8	8	2.1	Y	Absent		HEXCR-7196(1)
L2460992-03L	Plastic 250ml unpreserved	C	8	8	1.9	Y	Absent		-
L2460992-03L1	Plastic 250ml unpreserved	C	8	8	1.9	Y	Absent		-
L2460992-03L2	Plastic 250ml unpreserved	D	8	8	2.1	Y	Absent		-
L2460992-03M	Plastic 250ml HNO3 preserved	C	<2	<2	1.9	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2460992-03M1	Plastic 250ml HNO3 preserved	C	<2	<2	1.9	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2460992-03M2	Plastic 250ml HNO3 preserved	D	<2	<2	2.1	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2460992-03N	Plastic 250ml NaOH preserved	C	>12	>12	1.9	Y	Absent		TCN-9010(14)

*Values in parentheses indicate holding time in days

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-03N1	Plastic 250ml NaOH preserved	C	>12	>12	1.9	Y	Absent		TCN-9010(14)
L2460992-03N2	Plastic 250ml NaOH preserved	D	>12	>12	2.1	Y	Absent		TCN-9010(14)
L2460992-03O	Amber 1L unpreserved	C	8	8	1.9	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03O1	Amber 1L unpreserved	C	8	8	1.9	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03O2	Amber 1L unpreserved	D	8	8	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03P	Amber 1L unpreserved	C	8	8	1.9	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03P1	Amber 1L unpreserved	C	8	8	1.9	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03P2	Amber 1L unpreserved	D	8	8	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-03Q	Amber 1L HCl preserved	C	<2	<2	1.9	Y	Absent		EPH-20(14)
L2460992-03Q1	Amber 1L HCl preserved	C	<2	<2	1.9	Y	Absent		EPH-20(14)
L2460992-03Q2	Amber 1L HCl preserved	C	<2	<2	1.9	Y	Absent		EPH-20(14)
L2460992-03R	Amber 1L HCl preserved	C	<2	<2	1.9	Y	Absent		EPH-20(14)
L2460992-03R1	Amber 1L HCl preserved	C	<2	<2	1.9	Y	Absent		EPH-20(14)
L2460992-03R2	Amber 1L HCl preserved	D	<2	<2	2.1	Y	Absent		EPH-20(14)
L2460992-03X	Plastic 120ml HNO3 preserved Filtrates	C	NA		1.9	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2460992-03X1	Plastic 120ml HNO3 preserved Filtrates	C	NA		1.9	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-03X2	Plastic 120ml HNO3 preserved Filtrates	D	NA		2.1	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2460992-04A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2460992-04B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2460992-04C	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2460992-04D	Amber 100ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-04E	Amber 100ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-04F	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2460992-04G	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2460992-04H	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2460992-04J	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2460992-04K	Plastic 250ml unpreserved	B	7	7	2.4	Y	Absent		HEXCR-7196(1)
L2460992-04L	Plastic 250ml unpreserved	B	7	7	2.4	Y	Absent		-
L2460992-04M	Plastic 250ml HNO3 preserved	B	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2460992-04N	Plastic 250ml NaOH preserved	B	>12	>12	2.4	Y	Absent		TCN-9010(14)
L2460992-04O	Amber 1L unpreserved	B	7	7	2.4	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-04P	Amber 1L unpreserved	B	7	7	2.4	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-04Q	Amber 1L HCl preserved	B	<2	<2	2.4	Y	Absent		EPH-20(14)
L2460992-04R	Amber 1L HCl preserved	B	<2	<2	2.4	Y	Absent		EPH-20(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-04X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.4	Y	Absent		CU-6020S(180),V-6020S(180),SE-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),TL-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2460992-05A	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-05B	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-05C	Vial HCl preserved	D	NA		2.1	Y	Absent		NYTCL-8260(14)
L2460992-05D	Amber 100ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-05E	Amber 100ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2460992-05F	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8081(7)
L2460992-05G	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8081(7)
L2460992-05H	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2460992-05J	Amber 120ml unpreserved	D	8	8	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2460992-05K	Plastic 250ml unpreserved	D	8	8	2.1	Y	Absent		HEXCR-7196(1)
L2460992-05L	Plastic 250ml unpreserved	D	8	8	2.1	Y	Absent		-
L2460992-05M	Plastic 250ml HNO3 preserved	D	<2	<2	2.1	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2460992-05N	Plastic 250ml NaOH preserved	D	>12	>12	2.1	Y	Absent		TCN-9010(14)
L2460992-05O	Amber 1L unpreserved	D	8	8	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-05P	Amber 1L unpreserved	D	8	8	2.1	Y	Absent		A2-TPHDRO/ORO(7)
L2460992-05Q	Amber 1L HCl preserved	D	<2	<2	2.1	Y	Absent		EPH-20(14)
L2460992-05R	Amber 1L HCl preserved	D	<2	<2	2.1	Y	Absent		EPH-20(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2460992-05X	Plastic 120ml HNO3 preserved Filtrates	D	NA		2.1	Y	Absent		SE-6020S(180),CU-6020S(180),V-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),NA-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2460992-06A	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)
L2460992-06B	Vial HCl preserved	C	NA		1.9	Y	Absent		NYTCL-8260(14)

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 2	Date Rec'd In Lab 10/19/24		L2460992 25OCT24 AKRF - M - 2 	
		Project Information		Deliverables		Billing Information
Project Name: BUD North		☐ ASP-A ☒ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other		☐ Same as Client Info PO #		
Project Location:		Regulatory Requirement ☒ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		
Project # 20012						
(Use Project name as Project #) ☐		Project Manager:		Please identify below location of applicable disposal facilities.		
Project Manager:		ALPHAQuote #:		Disposal Facility:		
Turn-Around Time:		Standard ☒ Due Date:		☐ NJ ☐ NY ☐ Other:		
Rush (only if pre approved) ☐ # of Days:						
Client Information Client: AKRF Address: 440 Park Ave S NY NY Phone: Fax: Email: J.Diggins@AKRF.com		These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: AKRF EQuIS, CATB, Close SPg Please specify Metals or TAL.		ANALYSIS 8270-SiH-RVT 8081 VITC 8082 LVI A2-TPH/10/10/0 EPH-20 HEXCR DISSOLV & METALS Total Hg details TCN		
ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)		Sample Specific Comments		
609912-01 MW-03_20241018 10/18/24 1240 GW MB X X X X X X X X X X 02 MW-02_20241018 1350 1 X X X X X X X X X X 03 MW-01_20241018 1545 1 X X X X X X X X X X 04 FB_20241018 1500 W MB 1 X X X X X X X X X X 05 MW-0X_20241018 1230 GW 1 X X X X X X X X X X 06 TB_20241018 - - W - - - - - - - - - -						
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		
Relinquished By: Mike Bates AKRF AKRF		Date/Time: 10/18/24 1700 10/18/24 0500 10/18/24 10/19/24 0130		Received By: AKRF AKRF AKRF AKRF		
		Date/Time: 10/18/24 1700 10/18/24 1850 10/18/24 2228 10/19/24 0130		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		

[illegible]



ANALYTICAL REPORT

Lab Number:	L2461002
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Patrick Diggins
Phone:	(646) 388-9784
Project Name:	BUD NORTH
Project Number:	200112
Report Date:	10/25/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2461002-01	INF_20241018	SOIL_VAPOR	Not Specified	10/18/24 11:00	10/18/24
L2461002-02	INT_20241018	SOIL_VAPOR	Not Specified	10/18/24 11:05	10/18/24
L2461002-03	EFF_20241018	SOIL_VAPOR	Not Specified	10/18/24 11:10	10/18/24



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

Case Narrative (continued)

Volatile Organics in Air

L2461002-01 through -03: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 10/25/24

AIR

Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-01

Client ID: INF_20241018

Sample Location:

Date Collected: 10/18/24 11:00

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 10/25/24 04:56

Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	10.6	0.200	--	52.4	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.8	1.00	--	35.2	2.38	--		1
Trichlorofluoromethane	44.2	0.200	--	248	1.12	--		1
Isopropanol	77.6	0.500	--	191	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.25	0.500	--	4.34	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.669	0.500	--	1.97	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-01

Client ID: INF_20241018

Sample Location:

Date Collected: 10/18/24 11:00

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.28	0.200	--	6.25	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	7.76	0.200	--	27.3	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.368	0.200	--	1.39	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.298	0.200	--	2.02	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.04	0.200	--	4.52	0.869	--		1



Project Name: BUD NORTH**Lab Number:** L2461002**Project Number:** 200112**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-01

Date Collected: 10/18/24 11:00

Client ID: INF_20241018

Date Received: 10/18/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	4.74	0.400	--	20.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.51	0.200	--	6.56	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	103		60-140



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-02

Client ID: INT_20241018

Sample Location:

Date Collected: 10/18/24 11:05

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 10/25/24 05:33

Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	10.4	0.200	--	51.4	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.9	1.00	--	30.6	2.38	--		1
Trichlorofluoromethane	46.5	0.200	--	261	1.12	--		1
Isopropanol	86.2	0.500	--	212	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.51	0.500	--	5.25	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.697	0.500	--	2.06	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-02

Client ID: INT_20241018

Sample Location:

Date Collected: 10/18/24 11:05

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.28	0.200	--	11.1	0.977	--		1
Tetrahydrofuran	1.54	0.500	--	4.54	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	12.1	0.200	--	42.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.249	0.200	--	0.938	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.340	0.200	--	1.48	0.869	--		1



Project Name: BUD NORTH**Lab Number:** L2461002**Project Number:** 200112**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-02

Date Collected: 10/18/24 11:05

Client ID: INT_20241018

Date Received: 10/18/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.69	0.400	--	7.34	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.541	0.200	--	2.35	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-03
 Client ID: EFF_20241018
 Sample Location:

Date Collected: 10/18/24 11:10
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 10/25/24 06:42
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	10.9	0.200	--	53.9	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.4	1.00	--	34.2	2.38	--		1
Trichlorofluoromethane	46.5	0.200	--	261	1.12	--		1
Isopropanol	110	0.500	--	270	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.44	0.500	--	5.00	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.620	0.500	--	1.83	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2461002**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-03

Client ID: EFF_20241018

Sample Location:

Date Collected: 10/18/24 11:10

Date Received: 10/18/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.77	0.200	--	8.64	0.977	--		1
Tetrahydrofuran	1.08	0.500	--	3.19	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	8.02	0.200	--	28.3	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.363	0.200	--	1.37	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.461	0.200	--	2.00	0.869	--		1



Project Name: BUD NORTH**Lab Number:** L2461002**Project Number:** 200112**Report Date:** 10/25/24**SAMPLE RESULTS**

Lab ID: L2461002-03

Date Collected: 10/18/24 11:10

Client ID: EFF_20241018

Date Received: 10/18/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.05	0.400	--	8.90	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.597	0.200	--	2.59	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	105		60-140



Project Name: BUD NORTH

Lab Number: L2461002

Project Number: 200112

Report Date: 10/25/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 10/24/24 16:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1988752-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: BUD NORTH

Lab Number: L2461002

Project Number: 200112

Report Date: 10/25/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 10/24/24 16:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1988752-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: BUD NORTH

Lab Number: L2461002

Project Number: 200112

Report Date: 10/25/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 10/24/24 16:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1988752-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461002

Report Date: 10/25/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1988752-3								
Dichlorodifluoromethane	87		-		70-130	-		
Chloromethane	82		-		70-130	-		
Freon-114	99		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	100		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethanol	99		-		40-160	-		
Vinyl bromide	93		-		70-130	-		
Acetone	103		-		40-160	-		
Trichlorofluoromethane	90		-		70-130	-		
Isopropanol	70		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	91		-		70-130	-		
Methylene chloride	91		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
Freon-113	91		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461002

Report Date: 10/25/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1988752-3								
Ethyl Acetate	108		-		70-130	-		
Chloroform	88		-		70-130	-		
Tetrahydrofuran	99		-		70-130	-		
1,2-Dichloroethane	88		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	87		-		70-130	-		
Benzene	84		-		70-130	-		
Carbon tetrachloride	94		-		70-130	-		
Cyclohexane	97		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	87		-		70-130	-		
2,2,4-Trimethylpentane	99		-		70-130	-		
Heptane	99		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	99		-		70-130	-		
1,1,2-Trichloroethane	87		-		70-130	-		
Toluene	85		-		70-130	-		
2-Hexanone	103		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461002

Report Date: 10/25/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1988752-3								
Tetrachloroethene	85		-		70-130	-		
Chlorobenzene	89		-		70-130	-		
Ethylbenzene	88		-		70-130	-		
p/m-Xylene	90		-		70-130	-		
Bromoform	106		-		70-130	-		
Styrene	91		-		70-130	-		
1,1,2,2-Tetrachloroethane	88		-		70-130	-		
o-Xylene	91		-		70-130	-		
4-Ethyltoluene	96		-		70-130	-		
1,3,5-Trimethylbenzene	89		-		70-130	-		
1,2,4-Trimethylbenzene	93		-		70-130	-		
Benzyl chloride	100		-		70-130	-		
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	90		-		70-130	-		
1,2-Dichlorobenzene	101		-		70-130	-		
1,2,4-Trichlorobenzene	92		-		70-130	-		
Naphthalene	92		-		70-130	-		
Hexachlorobutadiene	95		-		70-130	-		

Project Name: BUD NORTH**Lab Number:** L2461002**Project Number:** 200112**Report Date:** 10/25/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2461002-01A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2461002-01X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2461002-02A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2461002-02X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2461002-03A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2461002-03X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461002
Report Date: 10/25/24

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE _____ OF _____

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: AKUF
Address: 440 Park Ave S
NY NY

Phone:

Fax:

Email: jdiggins@AKUF.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: But North
Project Location: 1
Project #: 200112
Project Manager: Patricia Diggins
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab: 10/19/24

Report Information - Data Deliverables

- ☐ FAX
☐ ADEX

Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)

Other Formats:

- ☐ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L2461002

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

ANALYSIS

☐ TO-15
☐ TO-15 SIM
☐ APH Submittal Non-petroleum HCs
☐ Fixed Gases
☐ Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flew Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
G1002-01	INF_20241018	10/18/24	1100	-	-	-	SV	MB	5L	-	-	-	X					
-02	INT_20241018	1	1105	-	-	-	I	I	I	-	-	-	X					
-03	EFF_20241018	1	1110	-	-	-	I	I	I	-	-	-	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Redlar Bag

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

rec: Emily Davis, kimo 10/19/24 0610 / 10/19/24 0610 / 10/19/24 0135 / Rel: [Signature] 200.



ANALYTICAL REPORT

Lab Number:	L2461048
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Patrick Diggins
Phone:	(646) 388-9784
Project Name:	BUD NORTH
Project Number:	200112
Report Date:	11/07/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2461048-01	MW-03_20241018	WATER	NY	10/18/24 12:40	10/18/24
L2461048-02	MW-02_20241018	WATER	NY	10/18/24 13:50	10/18/24
L2461048-03	MW-01_20241018	WATER	NY	10/18/24 15:45	10/18/24
L2461048-04	MW-0X_20241018	WATER	NY	10/18/24 12:30	10/18/24
L2461048-05	FB_20241018	WATER	NY	10/18/24 15:00	10/18/24

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2461048-01R, -02R, -03R, and -04R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2461048-01R: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2461048-01R: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (272%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (229%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

L2461048-02R: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (276%), 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (351%), and 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (332%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

L2461048-03R: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (238%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (296%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

L2461048-04R: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (237%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (301%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

WG1991713-2, WG1991713-4, and WG1991713-5: The sample was re-analyzed due to QC failures in the

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Case Narrative (continued)

original analysis. The results of the re-analysis are reported.

The WG1991713-2 LCS recoveries, associated with L2461048-01R, -02R, -03R, -04R, and -05, are above the acceptance criteria for n-methyl perfluorooctanesulfonamidoacetic acid (nmefosaa) (170%) and 4,8-dioxo-3h-perfluorononanoic acid (adona) (146%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original analysis are reported.

The WG1991713-3 LCS recovery, associated with L2461048-01R, -02R, -03R, -04R, and -05 is above the acceptance criteria for 4,8-dioxo-3h-perfluorononanoic acid (adona) (235%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original analysis are reported.

The WG1991713-4/-5 MS/MSD recoveries, performed on L2461048-03, are outside the acceptance criteria for n-ethyl perfluorooctanesulfonamido ethanol (netfose) (MS 142%), perfluoro-3-methoxypropanoic acid (pfmpa) (205%/206%), 2h,2h,3h,3h-perfluorooctanoic acid (5:3ftca) (142%/143%), and 3-perfluoroheptyl propanoic acid (7:3ftca) (MS 149%).

The Extracted Internal Standard recoveries for the WG1991713-4/-5 MS/MSD, performed on L2461048-03, are outside the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (258%/264%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (303%/307%). The associated MS/MSD spike compounds are within criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 11/07/24

ORGANICS

SEMIVOLATILES

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-01 R

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 11/01/24 15:54

Analytical Date: 11/04/24 13:28

Analyst: ANH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	47.3		ng/l	12.8	1.06	1
Perfluoropentanoic Acid (PFPeA)	30.5		ng/l	6.40	0.720	1
Perfluorobutanesulfonic Acid (PFBS)	16.4		ng/l	3.20	0.800	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	12.8	1.82	1
Perfluorohexanoic Acid (PFHxA)	30.6		ng/l	3.20	0.496	1
Perfluoropentanesulfonic Acid (PFPeS)	1.95	J	ng/l	3.20	0.416	1
Perfluoroheptanoic Acid (PFHpA)	21.0		ng/l	3.20	0.480	1
Perfluorohexanesulfonic Acid (PFHxS)	6.93		ng/l	3.20	0.272	1
Perfluorooctanoic Acid (PFOA)	71.8		ng/l	3.20	0.528	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	12.8	9.63	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	3.20	0.400	1
Perfluorononanoic Acid (PFNA)	1.89	J	ng/l	3.20	0.528	1
Perfluorooctanesulfonic Acid (PFOS)	2.83	JF	ng/l	3.20	0.528	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	3.20	0.416	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	12.8	2.45	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	3.20	0.400	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	3.20	0.960	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	3.20	0.352	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	3.20	0.272	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	3.20	0.192	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	3.20	0.960	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	3.20	0.432	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	3.20	0.368	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	3.20	0.320	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	12.8	3.20	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	12.8	0.752	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	3.20	0.480	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-01 R

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	12.8	0.880	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	12.8	0.896	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	3.20	0.448	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	3.20	0.704	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	32.0	2.61	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	32.0	2.21	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	0.688	J	ng/l	6.40	0.496	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	6.40	0.720	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	6.40	0.656	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	6.40	1.09	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	16.0	1.07	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	80.0	8.51	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	80.0	6.37	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-01 R

Date Collected: 10/18/24 12:40

Client ID: MW-03_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	101				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	272			Q	40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	91				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	83				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	102				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	95				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	229			Q	40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	91				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	95				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	91				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	124				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	84				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	80				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	57				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	70				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	68				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	88				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	66				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	66				10-130	

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-02 R

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 11/01/24 15:54

Analytical Date: 11/04/24 13:37

Analyst: ANH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	37.0		ng/l	6.10	0.503	1
Perfluoropentanoic Acid (PFPeA)	60.1		ng/l	3.05	0.343	1
Perfluorobutanesulfonic Acid (PFBS)	15.2		ng/l	1.52	0.381	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.10	0.870	1
Perfluorohexanoic Acid (PFHxA)	57.1		ng/l	1.52	0.236	1
Perfluoropentanesulfonic Acid (PFPeS)	1.32	J	ng/l	1.52	0.198	1
Perfluoroheptanoic Acid (PFHpA)	17.1		ng/l	1.52	0.229	1
Perfluorohexanesulfonic Acid (PFHxS)	5.93		ng/l	1.52	0.130	1
Perfluorooctanoic Acid (PFOA)	54.9		ng/l	1.52	0.252	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.10	4.59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.52	0.191	1
Perfluorononanoic Acid (PFNA)	3.66		ng/l	1.52	0.252	1
Perfluorooctanesulfonic Acid (PFOS)	15.9		ng/l	1.52	0.252	1
Perfluorodecanoic Acid (PFDA)	1.01	J	ng/l	1.52	0.198	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.10	1.17	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.52	0.191	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.52	0.458	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.52	0.168	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.52	0.130	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.52	0.092	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.52	0.458	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.52	0.206	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.52	0.175	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.52	0.152	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.10	1.52	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.10	0.358	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.52	0.229	1

Project Name: BUD NORTH**Lab Number:** L2461048**Project Number:** 200112**Report Date:** 11/07/24**SAMPLE RESULTS**

Lab ID: L2461048-02 R

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.10	0.420	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.10	0.427	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.52	0.214	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.52	0.336	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.2	1.24	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.2	1.05	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.05	0.236	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.05	0.343	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.05	0.313	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.05	0.519	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.63	0.511	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	38.1	4.06	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	38.1	3.04	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-02 R

Date Collected: 10/18/24 13:50

Client ID: MW-02_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	55				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	96				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	106				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	276			Q	40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	96				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	100				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	99				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	351			Q	40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	100				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	97				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	91				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	332			Q	40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	136				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	86				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	92				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	109				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	65				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	66				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	98				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	65				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	63				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	65				10-130	

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-03 R

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 11/01/24 15:54

Analytical Date: 11/04/24 13:46

Analyst: ANH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	19.4		ng/l	6.03	0.497	1
Perfluoropentanoic Acid (PFPeA)	13.0		ng/l	3.01	0.339	1
Perfluorobutanesulfonic Acid (PFBS)	2.95		ng/l	1.51	0.377	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.03	0.859	1
Perfluorohexanoic Acid (PFHxA)	11.1		ng/l	1.51	0.234	1
Perfluoropentanesulfonic Acid (PFPeS)	1.46	J	ng/l	1.51	0.196	1
Perfluoroheptanoic Acid (PFHpA)	9.09		ng/l	1.51	0.226	1
Perfluorohexanesulfonic Acid (PFHxS)	3.35		ng/l	1.51	0.128	1
Perfluorooctanoic Acid (PFOA)	46.7		ng/l	1.51	0.249	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.03	4.54	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.51	0.188	1
Perfluorononanoic Acid (PFNA)	1.61		ng/l	1.51	0.249	1
Perfluorooctanesulfonic Acid (PFOS)	12.4		ng/l	1.51	0.249	1
Perfluorodecanoic Acid (PFDA)	0.332	J	ng/l	1.51	0.196	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.03	1.15	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.51	0.188	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.51	0.452	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.51	0.166	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.51	0.128	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.51	0.090	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.51	0.452	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.51	0.203	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.51	0.173	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.51	0.151	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.03	1.51	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.03	0.354	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.51	0.226	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-03 R

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.03	0.414	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.03	0.422	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.51	0.211	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.51	0.332	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.1	1.23	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.1	1.04	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.01	0.234	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.01	0.339	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.01	0.309	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.01	0.512	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.54	0.505	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.7	4.01	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.7	3.00	1

Project Name: BUD NORTH**Lab Number:** L2461048**Project Number:** 200112**Report Date:** 11/07/24**SAMPLE RESULTS**

Lab ID: L2461048-03 R

Date Collected: 10/18/24 15:45

Client ID: MW-01_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	43				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	238			Q	40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	92				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	296			Q	40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	73				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	70				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	211				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	64				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	73				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	77				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	53				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	45				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	89				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	48				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	51				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	50				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	48				10-130	

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-04 R

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 11/01/24 15:57

Analytical Date: 11/04/24 14:12

Analyst: ANH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	34.0		ng/l	6.07	0.501	1
Perfluoropentanoic Acid (PFPeA)	62.3		ng/l	3.04	0.342	1
Perfluorobutanesulfonic Acid (PFBS)	13.2		ng/l	1.52	0.380	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.07	0.866	1
Perfluorohexanoic Acid (PFHxA)	53.0		ng/l	1.52	0.235	1
Perfluoropentanesulfonic Acid (PFPeS)	0.949	J	ng/l	1.52	0.197	1
Perfluoroheptanoic Acid (PFHpA)	15.9		ng/l	1.52	0.228	1
Perfluorohexanesulfonic Acid (PFHxS)	5.32		ng/l	1.52	0.129	1
Perfluorooctanoic Acid (PFOA)	50.2		ng/l	1.52	0.250	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.07	4.57	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.402	J	ng/l	1.52	0.190	1
Perfluorononanoic Acid (PFNA)	3.82		ng/l	1.52	0.250	1
Perfluorooctanesulfonic Acid (PFOS)	18.7		ng/l	1.52	0.250	1
Perfluorodecanoic Acid (PFDA)	1.15	J	ng/l	1.52	0.197	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.07	1.16	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.52	0.190	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.52	0.456	1
Perfluoroundecanoic Acid (PFUnA)	0.349	J	ng/l	1.52	0.167	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.52	0.129	1
Perfluorooctanesulfonamide (PFOSA)	0.448	JF	ng/l	1.52	0.091	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.52	0.456	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.52	0.205	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.52	0.175	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.52	0.152	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.07	1.52	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.07	0.357	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.52	0.228	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-04 R

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.07	0.418	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.07	0.425	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.52	0.213	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.52	0.334	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.2	1.24	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.2	1.05	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.04	0.235	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.04	0.342	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.04	0.311	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.04	0.516	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.59	0.509	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	38.0	4.04	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	38.0	3.02	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-04 R

Date Collected: 10/18/24 12:30

Client ID: MW-0X_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	61				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	100				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	237			Q	40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	96				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	95				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	301			Q	40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	87				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	88				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	84				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	282				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	114				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	83				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	92				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	61				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	60				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	96				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	65				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	65				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	58				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	56				10-130	

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-05
 Client ID: FB_20241018
 Sample Location: NY

Date Collected: 10/18/24 15:00
 Date Received: 10/18/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 11/03/24 16:15
 Analyst: ANH

Extraction Method: EPA 1633
 Extraction Date: 11/01/24 15:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.97	0.493	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.99	0.336	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.49	0.373	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.97	0.851	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.49	0.231	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.49	0.194	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.49	0.224	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.49	0.127	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.49	0.246	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.97	4.49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.49	0.187	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.49	0.246	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.49	0.246	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.49	0.194	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.97	1.14	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.49	0.187	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.49	0.448	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.49	0.164	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.49	0.127	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.49	0.090	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.49	0.448	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.49	0.202	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.49	0.172	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.49	0.149	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.97	1.49	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.97	0.351	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.49	0.224	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-05

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.97	0.411	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.97	0.418	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.49	0.209	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.49	0.328	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.9	1.22	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.9	1.03	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.99	0.231	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.99	0.336	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	2.99	0.306	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.99	0.508	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.47	0.500	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.3	3.97	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.3	2.97	1

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

SAMPLE RESULTS

Lab ID: L2461048-05

Date Collected: 10/18/24 15:00

Client ID: FB_20241018

Date Received: 10/18/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	92				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	102				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	99				40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	96				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	111				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	88				40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	110				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	74				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	121				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	83				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	64				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	64				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	59				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	97				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	56				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	62				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	64				10-130	

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/03/24 13:20
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 11/01/24 15:54

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1991713-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	0.528
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.360
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	0.912
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.248
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.208
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.240
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.136
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.264
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	4.82
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.200
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.264
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.264
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.208
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	1.22
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.480
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.480
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	1.60
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	0.376
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/03/24 13:20
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 11/01/24 15:54

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1991713-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	0.440
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	0.448
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.360
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.328
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.544
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	0.536
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	4.26
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	3.18

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
Report Date: 11/07/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/03/24 13:20
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 11/01/24 15:54

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05 Batch: WG1991713-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	92		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	114		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	105		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	99		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	107		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	101		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	108		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	99		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	108		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	80		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	75		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	88		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	89		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	73		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	74		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	56		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	77		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	81		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	72		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	74		10-130

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	121		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	122		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	118		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	116		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	123		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	119		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	125		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	112		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	131		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	137		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	117		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	132		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	120		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	115		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	126		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	104		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	170	Q	-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	115		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	90		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	114		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	132		-		70-145	-		30
Perfluorododecanoic Acid (PFDoA)	116		-		70-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	104		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	121		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	119		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	146	Q	-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	86		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	120		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	99		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	127		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	129		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	118		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	121		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	108		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	108		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	120		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	130		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	98		-		65-130	-		30
2H,2H,3H-Perfluorooctanoic Acid (5:3FTCA)	122		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	104		-		50-145	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Lab Number: L2461048

Project Number: 200112

Report Date: 11/07/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	112				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	105				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	95				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	102				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	93				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	98				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	95				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	96				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	99				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	70				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	83				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	82				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	67				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	72				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	63				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	99				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	64				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	66				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	74				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	70				10-130

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-3								
Perfluorobutanoic Acid (PFBA)	136		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	132		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	115		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	121		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	132		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	107		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	110		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	112		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	110		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	121		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	122		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	107		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	122		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	112		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	111		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	119		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	105		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		-		70-145	-		30
Perfluorododecanoic Acid (PFDoA)	112		-		70-140	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-3								
Perfluorotridecanoic Acid (PFTTrDA)	108		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	113		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	129		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	235	Q	-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	90		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	124		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	107		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	100		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	107		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	105		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	119		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	120		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	121		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	131		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	148		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	126		-		65-130	-		30
2H,2H,3H-Perfluorooctanoic Acid (5:3FTCA)	119		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	82		-		50-145	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1991713-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	106				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	105				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	95				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	94				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	103				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	106				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	98				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	114				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	103				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	97				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	86				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	72				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	92				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	84				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	74				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	97				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	81				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	81				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	79				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	76				10-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1991713-4 WG1991713-5 QC Sample: L2461048-03 Client ID: MW-01_20241018												
Perfluorobutanoic Acid (PFBA)	19.4	73.6	113	127		106	119		70-140	6		30
Perfluoropentanoic Acid (PFPeA)	13.0	36.8	55.6	116		53.6	112		65-135	4		30
Perfluorobutanesulfonic Acid (PFBS)	2.95	16.3	21.6	114		20.8	111		60-145	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	69	76.4	111		72.7	107		70-145	5		30
Perfluorohexanoic Acid (PFHxA)	11.1	18.4	32.6	117		32.2	116		70-145	1		30
Perfluoropentanesulfonic Acid (PFPeS)	1.46J	17.3	21.6	116		21.0	115		65-140	3		30
Perfluoroheptanoic Acid (PFHpA)	9.09	18.4	30.8	118		30.3	117		70-150	2		30
Perfluorohexanesulfonic Acid (PFHxS)	3.35	16.9	21.1	105		21.0	106		65-145	0		30
Perfluorooctanoic Acid (PFOA)	46.7	18.4	67.2	111		67.0	112		70-150	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	70	91.9	131		85.1	123		65-155	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	17.5	24.2	138		21.4	124		70-150	12		30
Perfluorononanoic Acid (PFNA)	1.61	18.4	27.0	138		24.1	124		70-150	11		30
Perfluorooctanesulfonic Acid (PFOS)	12.4	17.1	31.8	114		29.2	100		55-150	9		30
Perfluorodecanoic Acid (PFDA)	0.332J	18.4	21.8	117		20.5	111		70-140	6		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	70.7	98.4	139		79.5	114		60-150	21		30
Perfluorononanesulfonic Acid (PFNS)	ND	17.7	20.8	117		18.4	105		65-145	12		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	18.4	21.5	117		19.5	108		50-140	10		30
Perfluoroundecanoic Acid (PFUnA)	ND	18.4	22.9	124		20.0	110		70-145	14		30
Perfluorodecanesulfonic Acid (PFDS)	ND	17.7	18.9	107		16.5	94		60-145	14		30
Perfluorooctanesulfonamide (PFOSA)	ND	18.4	22.9	124		20.1	111		70-145	13		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	18.4	24.6	134		19.4	107		70-145	24		30
Perfluorododecanoic Acid (PFDoA)	ND	18.4	25.2	137		21.8	120		70-140	14		30

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2461048

Report Date: 11/07/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1991713-4 WG1991713-5 QC Sample: L2461048-03 Client ID: MW-01_20241018												
Perfluorotridecanoic Acid (PFTrDA)	ND	18.4	21.5	117		18.9	104		65-140	13		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	18.4	23.3	127		21.1	116		60-140	10		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	73.6	91.7	125		85.9	118		70-140	7		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	69.6	97.7	140		95.4	139		65-145	2		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	17.9	16.0	89		14.8	84		50-145	8		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	68.7	84.5	123		78.6	116		70-155	7		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	69.4	73.8	106		66.4	97		55-160	11		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	18.4	22.2	121		20.5	113		60-150	8		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	18.4	25.0	136		21.9	121		65-145	13		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	184	232	126		200	110		70-145	15		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	184	261	142	Q	216	119		70-135	19		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	36.8	75.5	205	Q	74.8	206	Q	55-140	1		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	36.8	41.7	113		38.3	106		60-150	9		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	32.8	43.3	132		41.4	128		70-140	4		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	36.8	43.0	117		43.8	121		50-150	2		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	92	105	114		97.1	107		65-130	8		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	460	653	142	Q	648	143	Q	70-135	1		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	460	686	149	Q	609	134		50-145	12		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** BUD NORTH**Project Number:** 200112**Lab Number:** L2461048**Report Date:** 11/07/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1991713-4 WG1991713-5 QC Sample: L2461048-03
 Client ID: MW-01_20241018

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	230		255		40-300
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	258	Q	264	Q	40-200
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	303	Q	307	Q	40-200
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	54		57		10-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	83		85		25-135
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	49		54		10-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	61		64		10-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	103		101		40-170
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	54		58		10-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	100		98		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78		83		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	81		79		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	104		100		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	67		78		30-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78		86		40-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	95		94		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	90		91		40-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	58		65		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	52		56		10-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	44		46		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	97		100		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96		95		40-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	81		85		40-130

Matrix Spike Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2461048
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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1991713-4 WG1991713-5 QC Sample: L2461048-03 Client ID: MW-01_20241018												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	94		97		40-130



Project Name: BUD NORTH
Project Number: 200112

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Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2461048-01A	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-01B	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-01C	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-02A	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-02B	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-02C	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-03A	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03B	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03C	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03D	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03E	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03F	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03G	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03H	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-03I	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28),A2-MS/MSD()
L2461048-04A	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-04B	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-04C	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-05A	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)
L2461048-05B	Plastic 500ml unpreserved	A	NA		5.7	Y	Absent		A2-NY-1633(28)

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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Project Name: BUD NORTH**Lab Number:** L2461048**Project Number:** 200112**Report Date:** 11/07/24

REFERENCES

- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page _____ of _____		Date Rec'd in Lab 10/19/24		ALPHA Job # L2461048	
		Project Information Project Name: BUD North Project Location: _____ Project # 200112 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUS (1 File) ☐ EQUS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO # _____			
Client Information Client: ARRF Address: 440 PARK AVE S NY NY Phone: _____ Fax: _____ Email: JJ@ARRF.COM		Project Manager: _____ ALPHAQuote #: _____ Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: _____ # of Days: _____		Regulatory Requirement ☒ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: _____ ☐ NJ ☐ NY ☐ Other: _____			
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)	
Other project specific requirements/comments: ARRF EQUS, CAT B, Close S/G						Please specify Metals or TAL.		Total Bottles	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
61048-01		MW-03-20241018		10/18/24 1240		GW		MB	
-02		MW-02-20241018		1350		I		I	
-03		MW-01-20241018		1545		I		I	
-04		MW-0X-20241018		1230		I		I	
-05		FB-20241018		1500		W		I	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative	
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: Mika Bates ARRF		Date/Time: 10/18/24 1700 10/18/24 1850 10/18/24		Received By: ARRF ARRF		Date/Time: 10/18/24 1200 10/18/24 1850 10/18/24 2220 10/19/24 0430 10/19/24 0600	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		Jason ARRF		10/19/24 10/19/24 0740		ARRF ARRF		10/19/24 0440	

December 6, 2024

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2460992

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Alpha Analytical for four water samples, one field blank and one trip blank from the Bud North site, which were reported in a single data package under Job No. L2460992 has been completed. The following samples were reported:

MW-03_20241018	MW-02_20241018
MW-01_20241018	FB_20241018
MW-0X_20241018	TB_20241018

Analyses were performed in accordance with USEPA Methods 8260D (Volatile Organics), 8270D &E (Semi-Volatile Organics), 8082A (PCBs), 8081B (Pesticides), MA EPH Rev. 2.1 (Aliphatic Hydrocarbons), 8015D (Total Petroleum Hydrocarbons), 6020B (Metals), 7470A (Mercury), 9010C (Cyanide) and 7196a (Hexavalent chromium). The review was performed to the extent possible, in accordance with the analytical methods and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes

5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result. When a result is rejected (R) the 'R' qualifier takes precedence over any previous qualification.

Volatile Organics

- The result for vinyl acetate in all samples are qualified as estimated (UJ) due to high percent difference in the ICV.
- The result for acetone in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 is qualified as estimated (J) due to high RPD between the LCS and LCSD.
- The results for carbon disulfide and naphthalene in MW-01_20241018 are qualified as estimated (J+) due to high MS and/or MSD recoveries. The result for acetone is qualified as estimated (J) due to low MS recovery and high RPD between the MS and MSD.
- The result for naphthalene in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 is qualified as estimated (J, UJ) due to high RPD (>30) in field duplicate samples.

Semi-Volatile Organics (Full Scan)

- The results for all target acid extractable analytes except pentachlorophenol in MW-03_20241018, MW-02_20241018, MW-01_20241018, MW-0X_20241018 and FB_20241018 are qualified as estimated (UJ) because two or more acid surrogates exhibited low recoveries.
- The results for all target analytes *except* 2,4-dinitrophenol in MW-03_20241018, MW-02_20241018, MW-01_20241018, FB_20241018 and MW-0X_20241018 are qualified as estimated (J, UJ) due to low recovery in the LCS and/or LCSD and high RPD between the LCS and LCSD.

- The results for 2,4,6-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, 2-nitrophenol, 4-nitrophenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol, phenol, 3&4-methylphenol, 2,4,5-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, and 2-nitrophenol in MW-01_20241018 are qualified as estimated due to low MS and/or MSD recovery and high RPD between the MS and MSD. The nondetect result for 4-nitrophenol in MW-01_20241018 is rejected (R) because the MSD recovery is less than 10%.

Semi-Volatile Organics (Selected Ion Monitoring [SIM])

- The results for pentachlorophenol and naphthalene in MW-01_20241018 are qualified as estimated (UJ) due to low recovery in the MS and/or MSD and high RPD between the MS and MSD.
- The results for benzo(b)fluoranthene, chrysene and benzo(a)pyrene in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 are qualified as estimated (J, UJ) due to high RPD (>30) in field duplicate samples.
- The results for the following samples are qualified as estimated (J) because the ion ratio is outside the acceptance window.
 - MW-03_20241018 – fluoranthene
 - MW-02_20241018 - fluoranthene, benzo[g,h,i]perylene
 - MW-01_20241018 – acenaphthylene, fluoranthene, benzo[g,h,i]perylene
 - MW-0X_20241018 – fluoranthene, benzo(b)fluoranthene

PCBs

- The results for Aroclor 1260 in MW-03_20241018, MW-02_20241018, MW-01_20241018, FB_20241018 and MW-0X_20241018 are qualified as estimated (UJ) due to low response on both columns in the CCV.

Pesticides

- The results for all pesticide analytes in MW-03_20241018, MW-02_20241018, MW-01_20241018, and MW-0X_20241018 are qualified as estimated (UJ) due to low surrogate recoveries on both columns.
- The results for beta-BHC, aldrin, heptachlor epoxide, endrin aldehyde, endrin ketone, dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, endosulfan I, endosulfan II, endosulfan sulfate and methoxychlor in MW-01_20241018 are qualified as estimated (UJ) due to low recovery in the MS and/or MSD and high RPD between the MS and MSD.

MA Extractable Petroleum Hydrocarbons

- Sample results are usable as reported.

Total Petroleum Hydrocarbons

- Sample results are usable as reported.

Metals

- The results for dissolved antimony in MW-02_20241018, MW-03_20241018 and MW-0X_20241018 are qualified as not detected at the reporting limit due to field blank contamination. The result for dissolved thallium MW-0X_20241018 is qualified as not detected at the reporting limit due to associated blank contamination.
- Sample results are qualified as estimated (J+) as indicated in Section H.2, because an interferent above the method detection limit (MDL) is detected in ICSA that is not present in ICSA.
- The result for total selenium in MW-01_20241018 is qualified as estimated (UJ) due to low recovery in the MS and MSD.

Cyanide

- The result for cyanide in MW-01_20241018 is qualified as estimated (J+) due to high MSD recovery.

Hexavalent chromium

- The result for hexavalent chromium in MW-01_20241018 is qualified as estimated (UJ) due to low recovery in the MS and MSD.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
 - Method blanks
 - Field blanks

- Trip Blanks
- Surrogate recoveries
- LCS/LCSD recoveries
- MS/MSD recoveries
- Internal standards
- Serial dilutions
- Duplicates
- Instrument related quality control data:
 - Instrument tunes
 - Calibration summaries
 - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of October 18, 2024. The samples were received at the laboratory on the same day as sample collection. All samples were received intact and analyzed within method holding time.

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r^2) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable ($\leq 30\%D$), with the exception noted below.

Analyte	%D	Associated Sample	Qualifier Applied
<i>ICV Elaine 10/11/2024</i>			
Vinyl acetate	33.7	MW-03_20241018 MW-02_20241018 MW-01_20241018 FB_20241018 MW-0X_20241018	UJ

Analyte	%D	Associated Sample	Qualifier Applied
		TB_20241018	

The result for vinyl acetate in all samples are qualified as estimated (UJ) due to high percent difference in the ICV. One CCV was analyzed in support of sample analysis and all percent differences (%Ds) are acceptable (<20%D).

2. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

One LCS/LCSD pair was analyzed in support of sample analysis. The laboratory control limits are excessively low and, in several instances, low and wide. The LCS/LCSD are evaluated using control limit of 70-130%R, relative percent difference (RPD) ≤ 20 . All recoveries and RPDs are acceptable, with the following exceptions. Where the recovery is high and the analytes are not detected in the associated samples, no qualification of results is warranted. These are not detailed below.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
WG1988958-3 & 4				
Acetone	a	a	27	MW-01_20241018 MW-02_20241018 MW-03_20241018 MW-0X_20241018

a=acceptable

The result for acetone in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 is qualified as estimated (J) due to high RPD between the LCS and LCSD.

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20241018. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD) ≤ 30 . All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
Carbon disulfide	140	150	a
Acetone	a	41	42
Naphthalene	150	a	a

The results for carbon disulfide and naphthalene in MW-01_20241018 are qualified as estimated (J+) due to high MS and/or MSD recoveries. The result for acetone is qualified as

estimated (J) due to low MS recovery and high RPD between the MS and MSD.

4. Field Duplicates

MW-0X_20241018 was submitted as a field duplicate of MW-02_20241018. Precision between paired samples is presented below.

Analyte	MW-02_20241018 (µg/L)	MW-0X_20241018 (µg/L)	RPD
Toluene	0.77 J	(2.5 U)	nc
Acetone	1.7 J	2.6 J	nc
Benzene	2.3	1.6	36
Naphthalene	15	12	22

nc-not calculated

The result for naphthalene in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 are qualified as estimated (J, UJ) due to high RPD (>30) in field duplicate samples.

B. Semi-Volatile Organics (Full Scan Analysis)

1. Surrogates

The laboratory control limits are excessively low. Surrogates are evaluated using control limit of 50-130%R. All surrogate recoveries are acceptable with the following exceptions:

Sample	Surrogate	%R
MW-03_20241018	2-Fluorophenol	45
	Phenol-d ₆	31
MW-02_20241018	2-Fluorophenol	27
	Phenol-d ₆	28
	2,4,6-Tribromophenol	46
MW-01_20241018	2-Fluorophenol	23
	Phenol-d ₆	24
	2,4,6-Tribromophenol	35
MW-0X_20241018	2-Fluorophenol	15
	Phenol-d ₆	18
	2,4,6-Tribromophenol	23
FB_20241018	2-Fluorophenol	31
	Phenol-d ₆	22
	2,4,6-Tribromophenol	47

The results for all target acid extractable analytes *except* pentachlorophenol in MW-03_20241018, MW-02_20241018, MW-01_20241018, MW-0X_20241018 and FB_20241018 are qualified as estimated (UJ) because two or more acid surrogates exhibited low recoveries.

2. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

One LCS/LCSD pair was analyzed in support of sample analysis. The laboratory control limits are excessively low and, in several instances, low and wide. The LCS/LCSD are evaluated using control limit of 70-130%R, relative percent difference (RPD) ≤ 20 . All recoveries and RPDs are acceptable, with the following exceptions. Where the recovery is high and the analytes are not detected in the associated samples, no qualification of results is warranted. These are not detailed below.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
WG1988740-2&3				
Acenaphthene	a	51	38	MW-03_20241018
1,2,4-Trichlorobenzene	67	49	31	MW-02_20241018
Hexachlorobenzene	a	50	37	MW-01_20241018
Bis(2-chloroethyl)ether	a	50	37	FB_20241018
2-Chloronaphthalene	68	48	34	MW-0X_20241018
1,2-Dichlorobenzene	65	48	30	
1,3-Dichlorobenzene	65	46	34	
1,4-Dichlorobenzene	66	48	32	
3,3'-Dichlorobenzidine	83	53	44	
2,4-Dinitrotoluene	a	52	41	
2,6-Dinitrotoluene	a	49	42	
Fluoranthene	a	51	43	
4-Chlorophenyl phenyl ether	a	49	41	
4-Bromophenyl phenyl ether	a	48	40	
Bis(2-chloroisopropyl)ether	a	54	30	
Bis(2-chloroethoxy)methane	a	53	37	
Hexachlorobutadiene	62	45	32	
Hexachlorocyclopentadiene	50	36	33	
Hexachloroethane	65	48	30	
Isophorone	a	51	34	
Naphthalene	67	48	33	
Nitrobenzene	a	53	32	
NDPA/DPA	a	53	41	
n-Nitrosodi-n-propylamine	a	52	35	
Bis(2-ethylhexyl)phthalate	a	46	44	
Butyl benzyl phthalate	a	50	40	

Di-n-butylphthalate	a	46	44
Di-n-octylphthalate	a	46	44
Diethyl phthalate	a	51	38
Dimethyl phthalate	a	50	36
Benzo(a)anthracene	a	51	44
Benzo(a)pyrene	a	57	44
Benzo(b)fluoranthene	a	53	47
Benzo(k)fluoranthene	a	56	46
Chrysene	a	52	45
Acenaphthylene	a	48	37
Anthracene	a	51	43
Benzo(ghi)perylene	a	54	47
Fluorene	a	52	40
Phenanthrene	a	52	41
Dibenzo(a,h)anthracene	a	53	47
Indeno(1,2,3-cd)pyrene	a	52	46
Pyrene	a	52	42
Biphenyl	a	51	37
4-Chloroaniline	63	45	33
2-Nitroaniline	a	51	37
3-Nitroaniline	a	53	41
4-Nitroaniline	a	54	43
Dibenzofuran	a	51	37
2-Methylnaphthalene	a	49	35
1,2,4,5-Tetrachlorobenzene	67	49	31
Acetophenone	a	56	32
2,4,6-Trichlorophenol	66	46	36
p-Chloro-m-cresol	a	51	38
2-Chlorophenol	a	50	33
2,4-Dichlorophenol	a	51	33
2,4-Dimethylphenol	66	45	38
2-Nitrophenol	a	52	35
4-Nitrophenol	54	39	32
4,6-Dinitro-o-cresol	a	60	31
Phenol	40	27	39
2-Methylphenol	65	47	32
3&4-Methylpheno	65	46	34
2,4,5-Trichlorophenol	a	48	40
Benzoic Acid	a	68	a
Benzyl Alcohol	68	48	34
Carbazole	a	52	42

a=acceptable

The results for all target analytes except 2,4-dinitrophenol in MW-03_20241018, MW-02_20241018, MW-01_20241018, FB_20241018 and MW-0X_20241018 are qualified as estimated (J, UJ) due to low recovery in the LCS and/or LCSD and high RPD between the LCS and CLSD.

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20241018. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD) ≤ 30 . All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
2,4,6-Trichlorophenol	21	15	34
2-Chlorophenol	30	27	34
2,4-Dichlorophenol	30	28	a
2-Nitrophenol	29	25	a
4-Nitrophenol	15	9	a
2,4-Dinitrophenol	a	65	55
4,6-Dinitro-o-cresol	32	26	a
Phenol	26	23	a
3&4-Methylphenol	60	60	a
2,4,5-Trichlorophenol	27	21	a
2-Chlorophenol	30	15	a
2,4-Dichlorophenol	30	27	34
2-Nitrophenol	29	28	11
4-Nitrophenol	15	25	a

a=acceptable

The results for 2,4,6-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, 2-nitrophenol, 4-nitrophenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol, phenol, 3&4-methylphenol, 2,4,5-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, and 2-nitrophenol in MW-01_20241018 are qualified as estimated due to low MS and/or MSD recovery and high RPD between the MS and MSD. The nondetect result for 4-nitrophenol in MW-01_20241018 is rejected (R) because the MSD recovery is less than 10%.

4. Field Duplicates

MW-0X_20241018 was submitted as a field duplicate of MW-02_20241018. Precision between paired samples is acceptable (RPD ≤ 30) as presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20241018 (µg/L)	MW-0X_20241018 (µg/L)	RPD
Dibenzofuran	6.7	5.9	13
Carbazole	7.6	5.7	29
Biphenyl	0.83 J	0.66 J	nc

nc-not calculated

C. Semi-Volatile Organics (Selected Ion Monitoring {SIM})

1. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20241018. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD) ≤ 30. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
Pentachlorophenol	30	17	55
Naphthalene	a	40	a

The results pentachlorophenol and naphthalene in MW-01_20241018 is qualified as estimated (U) due to low recovery in the MS and/or MSD and high RPD between the MS and MSD.

2. Field Duplicates

MW-0X_20241018 was submitted as a field duplicate of MW-02_20241018. Precision between paired samples is presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20241018 (µg/L)	MW-0X_20241018 (µg/L)	RPD
Hexachlorobenzene	0.02 J	(0.01 U)	nc
Anthracene	3.4	3.1	9
Pyrene	3	2.4	22
Benzo(g,h,i)Perylene	0.09 J	(0.02 U)	nc
Indeno(1,2,3-c,d)Pyrene	0.1 J	(0.02 U)	nc
Benzo(b)Fluoranthene	0.18	0.06 J	100
Fluoranthene	4.6	3.7	22
Benzo(k)Fluoranthene	0.09 J	(0.03 U)	nc
Acenaphthylene	0.7	0.58	19
Chrysene	0.2	0.09 J	76
Benzo(a)Pyrene	0.14	0.04 J	111

Dibenz(a,h)Anthracene	0.05 J	(0.02 U)	nc
Benzo(a)Anthracene	0.38	0.17	74
Acenaphthene	4.6	3.9	16
Phenanthrene	24	23	4
Fluorene	9.1	8.4	8
Naphthalene	7.2	6.4	12
2-Methylnaphthalene	1.7	1.6	6

nc-not calculated

The results for benzo(b)fluoranthene, chrysene and benzo(a)pyrene in MW-01_20241018, MW-02_20241018, MW-03_20241018 and MW-0X_20241018 are qualified as estimated (J, UJ) due to high RPD (>30) in field duplicate samples.

3. Compound Identification

For SIM analysis, analyte identification is based on retention time and verifying that the ratio of the quantitation ion to the confirmation ion is within an absolute $\pm 20\%$ of the ratio observed in a mid-range calibration standard. When the ratio is outside the established window, the identification of the analyte is not confirmed and the results are qualitatively and quantitatively uncertain. The results for the following samples are qualified as estimated (J) because the ion ratio is outside the acceptance window.

- MW-03_20241018 – fluoranthene
- MW-02_20241018 - fluoranthene, benzo[g,h,i]perylene
- MW-01_20241018 – acenaphthylene, fluoranthene, benzo[g,h,i]perylene
- MW-0X_20241018 - fluoranthene, benzo(b)fluoranthene

D. PCBs

1. Calibration

One initial calibration (IC) was performed in support of the sample analyses. All relative standard deviations (RSDs) or correlation coefficients (r^2) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable ($\leq 30\%D$). Two CCVs were analyzed in support of sample analysis. All percent differences ($\%Ds$) are acceptable ($\leq 20\%D$) with the exceptions noted below.

Analyte	%D Column 1	%D Column 2	Associated Sample	Qualifier Applied
CCV PEST 23 10/25/24 08:18				
Aroclor 1260-3	22.2	20.9	MW-03_20241018	UJ
Aroclor 1260-4	22.7	a	MW-02_20241018	
			MW-01_20241018	

Analyte	%D Column 1	%D Column 2	Associated Sample	Qualifier Applied
			FB_20241018 MW-OX_20241018	

a=acceptable

The results for Aroclor 1260 in MW-03_20241018, MW-02_20241018, MW-01_20241018, FB_20241018 and MW-OX_20241018 are qualified as estimated (UJ) due to low response on both columns in the CCV.

E. Pesticides

1. Surrogates

The laboratory control limits are excessively low. Surrogates are evaluated using control limit of 50-130%R. All surrogate recoveries are acceptable with the following exceptions:

Sample	TCX Column 1	TCX Column 1	DCB Column 1	DCB Column 2
MW-03_20241018	47	46	37	a
MW-02_20241018	49	35	43	a
MW-01_20241018	39	34	34	49
MW-OX_20241018	48	39	49	a

a=acceptable

The results for all pesticide analytes in MW-03_20241018, MW-02_20241018, MW-01_20241018, and MW-OX_20241018 are qualified as estimated (UJ) due to low surrogate recoveries on both columns.

2. Matrix Spike

MS/MSD analyses were performed on sample MW-01_20241018. The MS/MSD are evaluated using control limit of 50-130%R, relative percent difference (RPD) ≤ 30 . All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
Beta-BHC	49	a	41
Aldrin	46	a	a
Heptachlor epoxide	38	40	a
Endrin aldehyde	32	32	a
Endrin ketone	43	46	a
Dieldrin	45	49	a
4,4'-DDE	43	45	a
4,4'-DDD	41	44	a

4,4'-DDT	40	44	a
Endosulfan I	42	43	a
Endosulfan II	41	46	a
Endosulfan sulfate	41	43	a
Methoxychlor	46	45	a

The results for beta-BHC, aldrin, heptachlor epoxide, endrin aldehyde, endrin ketone, dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, endosulfan I, endosulfan II, endosulfan sulfate and methoxychlor in MW-01_20241018 are qualified as estimated (UJ) due to low recovery in the MS and/or MSD and high RPD between the MS and MSD.

F. MA Extractable Petroleum Hydrocarbons

No qualification of samples results is made as a result of the data review effort.

G. Total Petroleum Hydrocarbons

No qualification of samples results is made as a result of the data review effort.

H. Metals including Mercury

1. Blanks

The table below summarizes blank detections that impacted sample results.

Blank	Analyte	Conc. (mg/L)	Sample Affected
FB_20241018 (d)	Antimony (d)	0.00063	MW-02_20241018 (d) MW-03_20241018 (d) MW-0X_20241018 (d)
ICB 10/29/24 06:19	Thallium	0.000294	MW-0X_20241018 (d)
CCB 10/29/24 06:44		0.000307	
CCB 10/29/24 07:48		0.000295	
CCB 10/29/2024 09:51		0.000382	
CCB 10/29/2024 10:51		0.000268	
CCB 10/29/2024 11:50		0.000262	
CCB 10/29/2024 12:55		0.000262	

CCB 10/29/2024 14:02		0.000268	
CCB 10/29/2024 14:49		0.000279	
CCB 10/29/2024 16:07		0.00258	
CCB 10/29/2024 17:21		0.00271	

The results for dissolved antimony in MW-02_20241018, MW-03_20241018 and MW-0X_20241018 are qualified as not detected at the reporting limit due to field blank contamination. The result for dissolved thallium MW-0X_20241018 is qualified as not detected at the reporting limit due to associated blank contamination.

2. Interference Check Standard (ICS)

Sample results are qualified as estimated (J+) as indicated below, because an interferent above the method detection limit (MDL) is detected in ICSA that is not present in ICSA. Sample results greater than ten times the concentration of the interferent are not qualified.

Analyte	Conc (mg/L)	Sample Affected
ISCA 10/29/24 06:26		
Arsenic	0.000425	MW-03_20241018 (d)
Antimony	0.000231	MW-02_20241018 (d) MW-03_20241018 (d) MW-0X_20241018 (d)
Chromium	0.00161	MW-01_20241018 (d) MW-02_20241018 (d) MW-03_20241018 (d) MW-0X_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t) MW-0X_20241018 (t)
Cobalt	0.00215	MW-01_20241018 (d) MW-02_20241018 (d) MW-0X_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t) MW-03_20241018 (t)
Copper	0.00104	MW-02_20241018 (d) MW-0X_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t) MW-03_20241018 (t)

Lead	0.0017	MW-01_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t) MW-03_20241018(t)
Nickel	0.00268	MW-01_20241018 (d) MW-02_20241018 (d) MW-03_20241018 (d) MW-0X_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t) MW-03_20241018 (t) MW-0X_20241018 (t)
Zinc	0.00210	MW-03_20241018 (d) MW-01_20241018 (t) MW-02_20241018 (t)

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on sample MW-01_20241018. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
Selenium (t)	21	24	a

The result for total selenium in MW-01_20241018 is qualified as estimated (UJ) due to low recovery in the MS and MSD.

Cyanide

1. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-01_20241018. The recovery of cyanide(138%R) in the MS is outside control limits. The result for cyanide in MW-01_20241018 is qualified as estimated (J+) due to high MSD recovery.

Hexavalent chromium

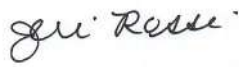
1. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-01_20241018. The recovery of hexavalent chromium(37 / 35%R) in the MS and MSD is outside control limits. The result for hexavalent

chromium in MW-01_20241018 is qualified as estimated (UJ) due to low recovery in the MS and MSD.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjериrossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

A handwritten signature in cursive script, reading "Jeri Rossi", is displayed within a light gray rectangular box.

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

- U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration 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 are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 2

Date Rec'd
In Lab

10/19/24

L2460992 25OCT24

AKRF - M - 2



Project Information

Project Name: BUD North

Project Location:

Project # 20012

(Use Project name as Project #) ☐

Project Manager:

ALPHAQuote #:

Turn-Around Time

Standard ☒

Due Date:

Rush (only if pre approved) ☐

of Days:

Client Information

Client: AKRF

Address: 440 Park Ave S

NY NY

Phone:

Fax:

Email: J.Diggins@AKRF.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

AKRF Equis, CATB, Close SPg

Please specify Metals or TAL.

Deliverables

☐ ASP-A

☒ ASP-B

☐ EQuIS (1 File)

☐ EQuIS (4 File)

☐ Other

Regulatory Requirement

☒ NY TOGS

☐ NY Part 375

☐ AWQ Standards

☐ NY CP-51

☐ NY Restricted Use

☐ Other

☐ NY Unrestricted Use

☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ

☐ NY

☐ Other:

ANALYSIS

8270-SiH-RVT
8081 VITC 8082 LVI
A2-TPH10/10/0
EPH-20
HEXCR
DISSOLVED METALS
Total Hg details
TCN

Sample Filtration

☐ Done

☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Sample Specific Comments

TOTAL BOTTLING

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample
Matrix

Sampler's
Initials

60912-01	MW-03_20241018	10/18/24	1240	GW	MB	X	X	X	X	X	X	X	X	X	X
02	MW-02_20241018		1350			X	X	X	X	X	X	X	X	X	X
03	MW-01_20241018		1545			X	X	X	X	X	X	X	X	X	X
04	FB_20241018		1500	W	(M)	X	X	X	X	X	X	X	X	X	X
05	MW-0X_20241018		1230	GW		X	X	X	X	X	X	X	X	X	X
06	TB_20241018			W											

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code

P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Bates	10/18/24 1700	AKRF Recd	10/18/24 1700
AKRF Recd	10/18/24 0500	AKRF Recd	10/18/24 1850
AKRF Recd	10/18/24	AKRF Recd	10/18/24 2220
AKRF Recd	10/19/24 0130	AKRF Recd	10/19/24 0130

ATTACHMENT C

**SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES**

Laboratory Control Sample Summary

Form 3

Volatiles

Client : AKRF, Inc. Lab Number : L2460992
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1988958-3 Analysis Date : 10/24/24 18:30 File ID : VE241024N01
 LCSD Sample ID : WG1988958-4 Analysis Date : 10/24/24 18:55 File ID : VE241024N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20
Trichloroethene	10	10	100	10	9.9	99	1	70-130	20
1,2-Dichlorobenzene	10	9.7	97	10	9.8	98	1	70-130	20
1,3-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,4-Dichlorobenzene	10	9.9	99	10	9.8	98	1	70-130	20
Methyl tert butyl ether	10	9.2	92	10	9.1	91	1	63-130	20
p/m-Xylene	20	20	100	20	20	100	0	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.7	97	10	9.3	93	4	70-130	20
Dibromomethane	10	9.4	94	10	9.4	94	0	70-130	20
1,2,3-Trichloropropane	10	9.0	90	10	9.1	91	1	64-130	20
Acrylonitrile	10	9.0	90	10	9.7	97	7	70-130	20
Styrene	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	10	11	110	10	11	110	0	36-147	20
Acetone	10	11	110	10	8.4	84	27 Q	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	11	110	10	9.4	94	16	63-138	20
Vinyl acetate	10	11	110	10	11	110	0	70-130	20
4-Methyl-2-pentanone	10	9.2	92	10	9.6	96	4	59-130	20
2-Hexanone	10	9.4	94	10	9.1	91	3	57-130	20
Bromochloromethane	10	9.8	98	10	9.9	99	1	70-130	20
2,2-Dichloropropane	10	12	120	10	11	110	9	63-133	20
1,2-Dibromoethane	10	9.2	92	10	9.4	94	2	70-130	20
1,3-Dichloropropane	10	9.8	98	10	9.8	98	0	70-130	20
1,1,1,2-Tetrachloroethane	10	9.6	96	10	9.7	97	1	64-130	20
Bromobenzene	10	9.9	99	10	9.8	98	1	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988958-6
 Matrix Spike Dup : WG1988958-7

Lab Number : L2460992
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 10/25/24 02:37
 MS Analysis Date : 10/25/24 04:14
 MSD Analysis Date : 10/25/24 04:38

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Bromomethane	ND	10	7.6	76	10	7.6	76	0	39-139	20
Vinyl chloride	ND	10	13	130	10	12	120	8	55-140	20
Chloroethane	ND	10	12	120	10	11	110	9	55-138	20
1,1-Dichloroethene	ND	10	13	130	10	11	110	17	61-145	20
trans-1,2-Dichloroethene	ND	10	11	110	10	10	100	10	70-130	20
Trichloroethene	ND	10	11	110	10	10	100	10	70-130	20
1,2-Dichlorobenzene	ND	10	9.8	98	10	9.3	93	5	70-130	20
1,3-Dichlorobenzene	ND	10	9.9	99	10	9.4	94	5	70-130	20
1,4-Dichlorobenzene	ND	10	9.8	98	10	9.2	92	6	70-130	20
Methyl tert butyl ether	ND	10	9.9	99	10	9.4	94	5	63-130	20
p/m-Xylene	1.1J	20	23	115	20	20	100	14	70-130	20
o-Xylene	0.97J	20	22	110	20	20	100	10	70-130	20
cis-1,2-Dichloroethene	ND	10	10	100	10	9.9	99	1	70-130	20
Dibromomethane	ND	10	9.9	99	10	9.4	94	5	70-130	20
1,2,3-Trichloropropane	ND	10	9.1	91	10	9.0	90	1	64-130	20
Acrylonitrile	ND	10	9.5	95	10	9.1	91	4	70-130	20
Styrene	ND	20	21	105	20	19	95	10	70-130	20
Dichlorodifluoromethane	ND	10	13	130	10	12	120	8	36-147	20
Acetone	5.7	10	15	93	10	9.8	41 Q	42 Q	58-148	20
Carbon disulfide	2.4J	10	14	140 Q	10	15	150 Q	7	51-130	20
2-Butanone	ND	10	11	110	10	9.1	91	19	63-138	20
Vinyl acetate	ND	10	9.9	99	10	9.4	94	5	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988958-6
 Matrix Spike Dup : WG1988958-7

Lab Number : L2460992
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 10/25/24 02:37
 MS Analysis Date : 10/25/24 04:14
 MSD Analysis Date : 10/25/24 04:38

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
4-Methyl-2-pentanone	ND	10	9.8	98	10	9.5	95	3	59-130	20
2-Hexanone	ND	10	9.3	93	10	9.0	90	3	57-130	20
Bromochloromethane	ND	10	10	100	10	9.9	99	1	70-130	20
2,2-Dichloropropane	ND	10	11	110	10	10	100	10	63-133	20
1,2-Dibromoethane	ND	10	9.6	96	10	9.0	90	6	70-130	20
1,3-Dichloropropane	ND	10	9.9	99	10	9.3	93	6	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	9.9	99	10	9.2	92	7	64-130	20
Bromobenzene	ND	10	9.7	97	10	9.1	91	6	70-130	20
n-Butylbenzene	ND	10	11	110	10	9.8	98	12	53-136	20
sec-Butylbenzene	ND	10	11	110	10	10	100	10	70-130	20
tert-Butylbenzene	ND	10	11	110	10	10	100	10	70-130	20
o-Chlorotoluene	ND	10	10	100	10	9.5	95	5	70-130	20
p-Chlorotoluene	ND	10	10	100	10	9.6	96	4	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	9.0	90	10	9.0	90	0	41-144	20
Hexachlorobutadiene	ND	10	10	100	10	10	100	0	63-130	20
Isopropylbenzene	ND	10	11	110	10	10	100	10	70-130	20
p-Isopropyltoluene	ND	10	11	110	10	10	100	10	70-130	20
Naphthalene	29	10	44	150 Q	10	42	130	5	70-130	20
n-Propylbenzene	ND	10	11	110	10	9.8	98	12	69-130	20
1,2,3-Trichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
1,2,4-Trichlorobenzene	ND	10	10	100	10	9.9	99	1	70-130	20
1,3,5-Trimethylbenzene	ND	10	11	110	10	10	100	10	64-130	20



Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2024\241010P-ICAL\
 Data File : VE241010P17.D
 Acq On : 11 Oct 2024 12:31 am
 Operator : ELAINE:PID
 Sample : C8260STD10PPB
 Misc : WG1983987,ICAL
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 14 12:17:29 2024
 Quant Method : K:\Elaine\2024\241010P-ICAL\Elaine_241010P_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Oct 14 12:15:38 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TP	Dichlorodifluoromethane	0.188	0.189	-0.5	91	0.00
3 TP	Chloromethane	0.245	0.279	-13.9	111	0.00
4 TP	Vinyl chloride	0.230	0.240	-4.3	100	0.00
5 TP	Bromomethane	0.080	0.068	15.0	103	0.00
6 TP	Chloroethane	0.135	0.138	-2.2	96	0.00
7 TP	Trichlorofluoromethane	* 10.000	9.940	0.6	98	0.00
8 TP	Ethyl ether	0.079	0.075	5.1	94	0.00
10 TP	1,1-Dichloroethene	0.144	0.151	-4.9	102	0.00
11 TP	Carbon disulfide	0.466	0.440	5.6	91	0.00
12 TP	Freon-113	* 10.000	9.957	0.4	99	0.00
13 TP	Iodomethane	* 10.000	7.226	27.7#	98	0.00
14 TP	Acrolein	0.025	0.024	4.0	102	0.00
15 TP	Methylene chloride	0.200	0.187	6.5	94	0.00
17 TP	Acetone	0.054	0.048	11.1	91	0.00
18 TP	trans-1,2-Dichloroethene	0.175	0.184	-5.1	104	0.00
19 TP	Methyl acetate	0.120	0.113	5.8	97	0.00
21 TP	Methyl tert-butyl ether	0.456	0.458	-0.4	104	0.00
22 TP	tert-Butyl alcohol	0.013	0.013	0.0	101	-0.01
24 TP	Diisopropyl ether	0.839	0.807	3.8	99	0.00
25 TP	1,1-Dichloroethane	0.401	0.407	-1.5	99	0.00
26 TP	Halothane	0.139	0.140	-0.7	97	0.00
27 TP	Acrylonitrile	0.060	0.060	0.0	107	0.00
28 TP	Ethyl tert-butyl ether	0.696	0.646	7.2	96	0.00
29 TP	Vinyl acetate	0.466	0.309	33.7#	73	0.00
30 TP	cis-1,2-Dichloroethene	0.215	0.206	4.2	94	0.00
31 TP	2,2-Dichloropropane	0.238	0.217	8.8	92	0.00
33 TP	Bromochloromethane	0.095	0.089#	6.3	89	0.00
34 TP	Cyclohexane	0.403	0.412	-2.2	97	0.00
35 TP	Chloroform	0.332	0.322	3.0	101	0.00
36 TP	Ethyl acetate	0.178	0.166	6.7	97	0.00
37 TP	Carbon tetrachloride	0.239	0.252	-5.4	100	0.00
38 TP	Tetrahydrofuran	0.052	0.046	11.5	90	0.00
39 S	Dibromofluoromethane	0.234	0.233	0.4	99	0.00
40 TP	1,1,1-Trichloroethane	0.281	0.291	-3.6	101	0.00
42 TP	2-Butanone	0.074	0.070	5.4	95	0.00
43 TP	1,1-Dichloropropene	0.237	0.244	-3.0	99	0.00
45 TP	Benzene	0.801	0.792	1.1	99	0.00
46 TP	tert-Amyl methyl ether	0.490	0.456	6.9	97	0.00

Surrogate Recovery Summary

Form 2

Semivolatiles

Client: AKRF, Inc.
Project Name: BUD NORTH

Lab Number: L2460992
Project Number: 200112
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-03_20241018 (L2460992-01)	45	31	74	65	64	75	0
MW-02_20241018 (L2460992-02)	27	28	71	68	46	78	0
MW-01_20241018 (L2460992-03)	23	24	69	62	35	74	0
FB_20241018 (L2460992-04)	31	22	53	50	47	61	0
MW-0X_20241018 (L2460992-05)	15*	18	61	56	23	70	1
WG1988740-1BLANK	39	29	72	69	62	81	0
WG1988740-2LCS	46	36	73	68	68	76	0
WG1988740-3LCSD	34	24	53	48	47	49	0
MW-01_20241018MS	17*	19	75	67	25	79	1
MW-01_20241018MSD	12*	17	76	66	19	78	1

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270-RVT



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : AKRF, Inc. Lab Number : L2460992
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1988740-2 Analysis Date : 10/25/24 03:13 File ID : 988740-2
 LCSD Sample ID : WG1988740-3 Analysis Date : 10/25/24 03:36 File ID : 988740-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Acenaphthene	20	15.	75	20	10.	51	38 Q	37-111	30
1,2,4-Trichlorobenzene	20	13.	67	20	9.7	49	31 Q	39-98	30
Hexachlorobenzene	20	14.	73	20	9.9	50	37 Q	40-140	30
Bis(2-chloroethyl)ether	20	15.	73	20	10.	50	37 Q	40-140	30
2-Chloronaphthalene	20	14.	68	20	9.5	48	34 Q	40-140	30
1,2-Dichlorobenzene	20	13.	65	20	9.5	48	30	40-140	30
1,3-Dichlorobenzene	20	13.	65	20	9.2	46	34 Q	40-140	30
1,4-Dichlorobenzene	20	13.	66	20	9.6	48	32 Q	36-97	30
3,3'-Dichlorobenzidine	20	17.	83	20	11.	53	44 Q	40-140	30
2,4-Dinitrotoluene	20	16.	79	20	10.	52	41 Q	48-143	30
2,6-Dinitrotoluene	20	15.	75	20	9.8	49	42 Q	40-140	30
Fluoranthene	20	16.	79	20	10.	51	43 Q	40-140	30
4-Chlorophenyl phenyl ether	20	15.	74	20	9.8	49	41 Q	40-140	30
4-Bromophenyl phenyl ether	20	14.	72	20	9.7	48	40 Q	40-140	30
Bis(2-chloroisopropyl)ether	20	15.	73	20	11.	54	30	40-140	30
Bis(2-chloroethoxy)methane	20	15.	77	20	10.	53	37 Q	40-140	30
Hexachlorobutadiene	20	12.	62	20	8.9	45	32 Q	40-140	30
Hexachlorocyclopentadiene	20	9.9	50	20	7.3	36 Q	33 Q	40-140	30
Hexachloroethane	20	13.	65	20	9.5	48	30	40-140	30
Isophorone	20	14.	72	20	10.	51	34 Q	40-140	30
Naphthalene	20	13.	67	20	9.7	48	33 Q	40-140	30
Nitrobenzene	20	14.	73	20	10.	53	32 Q	40-140	30
NDPA/DPA	20	16.	80	20	10.	53	41 Q	40-140	30
n-Nitrosodi-n-propylamine	20	15.	74	20	10.	52	35 Q	29-132	30
Bis(2-ethylhexyl)phthalate	20	14.	72	20	9.2	46	44 Q	40-140	30
Butyl benzyl phthalate	20	15.	75	20	10.	50	40 Q	40-140	30



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : AKRF, Inc. Lab Number : L2460992
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1988740-2 Analysis Date : 10/25/24 03:13 File ID : 988740-2
 LCSD Sample ID : WG1988740-3 Analysis Date : 10/25/24 03:36 File ID : 988740-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Di-n-butylphthalate	20	14.	72	20	9.3	46	44 Q	40-140	30
Di-n-octylphthalate	20	14.	72	20	9.1	46	44 Q	40-140	30
Diethyl phthalate	20	15.	75	20	10.	51	38 Q	40-140	30
Dimethyl phthalate	20	14.	72	20	10.	50	36 Q	40-140	30
Benzo(a)anthracene	20	16.	80	20	10.	51	44 Q	40-140	30
Benzo(a)pyrene	20	18.	89	20	11.	57	44 Q	40-140	30
Benzo(b)fluoranthene	20	17.	86	20	10.	53	47 Q	40-140	30
Benzo(k)fluoranthene	20	18.	89	20	11.	56	46 Q	40-140	30
Chrysene	20	16.	82	20	10.	52	45 Q	40-140	30
Acenaphthylene	20	14.	70	20	9.7	48	37 Q	45-123	30
Anthracene	20	16.	79	20	10.	51	43 Q	40-140	30
Benzo(ghi)perylene	20	17.	87	20	11.	54	47 Q	40-140	30
Fluorene	20	16.	78	20	10.	52	40 Q	40-140	30
Phenanthrene	20	16.	79	20	10.	52	41 Q	40-140	30
Dibenzo(a,h)anthracene	20	17.	86	20	10.	53	47 Q	40-140	30
Indeno(1,2,3-cd)pyrene	20	17.	83	20	10.	52	46 Q	40-140	30
Pyrene	20	16.	80	20	10.	52	42 Q	26-127	30
Biphenyl	20	15.	74	20	10.	51	37 Q	40-140	30
4-Chloroaniline	20	13.	63	20	9.0	45	33 Q	40-140	30
2-Nitroaniline	20	15.	74	20	10.	51 Q	37 Q	52-143	30
3-Nitroaniline	20	16.	80	20	11.	53	41 Q	25-145	30
4-Nitroaniline	20	17.	84	20	11.	54	43 Q	51-143	30
Dibenzofuran	20	15.	74	20	10.	51	37 Q	40-140	30
2-Methylnaphthalene	20	14.	70	20	9.8	49	35 Q	40-140	30
1,2,4,5-Tetrachlorobenzene	20	13.	67	20	9.9	49	31 Q	2-134	30
Acetophenone	20	15.	77	20	11.	56	32 Q	39-129	30



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client	: AKRF, Inc.	Lab Number	: L2460992
Project Name	: BUD NORTH	Project Number	: 200112
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1988740-2	Analysis Date	: 10/25/24 03:13
LCSD Sample ID	: WG1988740-3	Analysis Date	: 10/25/24 03:36
		File ID	: 988740-2
		File ID	: 988740-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
2,4,6-Trichlorophenol	20	13.	66	20	9.2	46	36 Q	30-130	30
p-Chloro-m-cresol	20	15.	75	20	10.	51	38 Q	23-97	30
2-Chlorophenol	20	14.	70	20	10.	50	33 Q	27-123	30
2,4-Dichlorophenol	20	14.	71	20	10.	51	33 Q	30-130	30
2,4-Dimethylphenol	20	13.	66	20	9.0	45	38 Q	30-130	30
2-Nitrophenol	20	15.	74	20	10.	52	35 Q	30-130	30
4-Nitrophenol	20	11.	54	20	7.8	39	32 Q	10-80	30
2,4-Dinitrophenol	20	21.	105	20	18.	92	13	20-130	30
4,6-Dinitro-o-cresol	20	16.	82	20	12.	60	31 Q	20-164	30
Pentachlorophenol	20	14.	70	20	9.4	47	39 Q	9-103	30
Phenol	20	7.9	40	20	5.4	27	39 Q	12-110	30
2-Methylphenol	20	13.	65	20	9.5	47	32 Q	30-130	30
3-Methylphenol/4-Methylphenol	20	13.	65	20	9.1	46	34 Q	30-130	30
2,4,5-Trichlorophenol	20	14.	72	20	9.7	48	40 Q	30-130	30
Benzoic Acid	20	14.	71	20	14.	68	4	10-164	30
Benzyl Alcohol	20	14.	68	20	9.6	48	34 Q	26-116	30
Carbazole	20	16.	80	20	10.	52 Q	42 Q	55-144	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988740-4
 Matrix Spike Dup : WG1988740-5

Lab Number : L2460992
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 10/25/24 06:22
 MS Analysis Date : 10/25/24 05:35
 MSD Analysis Date : 10/25/24 05:59

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Dimethyl phthalate	ND	20	15.	75	20	15.	75	0	40-140	30
Biphenyl	0.80J	20	16.	80	20	16.	80	0	40-140	30
4-Chloroaniline	ND	20	14.	70	20	15.	75	7	40-140	30
2-Nitroaniline	ND	20	15.	75	20	15.	75	0	52-143	30
3-Nitroaniline	ND	20	16.	80	20	16.	80	0	25-145	30
4-Nitroaniline	ND	20	16.	80	20	15.	75	6	51-143	30
Dibenzofuran	4.3	20	20.	79	20	20.	79	0	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	14.	70	20	13.	65	7	2-134	30
Acetophenone	ND	20	16.	80	20	16.	80	0	39-129	30
2,4,6-Trichlorophenol	ND	20	4.1J	21 Q	20	2.9J	15 Q	34 Q	30-130	30
p-Chloro-m-cresol	ND	20	12.	60	20	13.	65	8	23-97	30
2-Chlorophenol	ND	20	6.0	30	20	5.4	27	11	27-123	30
2,4-Dichlorophenol	ND	20	6.0	30	20	5.5	28 Q	9	30-130	30
2,4-Dimethylphenol	ND	20	16.	80	20	16.	80	0	30-130	30
2-Nitrophenol	ND	20	5.7J	29 Q	20	5.0J	25 Q	13	30-130	30
4-Nitrophenol	ND	20	3.0J	15	20	1.7J	9 Q	55 Q	10-80	30
2,4-Dinitrophenol	ND	20	14.J	70	20	13.J	65	7	20-130	30
4,6-Dinitro-o-cresol	ND	20	6.4J	32	20	5.2J	26	21	20-164	30
Phenol	0.38J	20	5.1	26	20	4.6J	23	10	12-110	30
2-Methylphenol	ND	20	14.	70	20	14.	70	0	30-130	30
3-Methylphenol/4-Methylphenol	1.6J	20	12.	60	20	12.	60	0	30-130	30
2,4,5-Trichlorophenol	ND	20	5.4	27 Q	20	4.1J	21 Q	27	30-130	30



Calibration Verification Summary

Form 7

Semivolatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : SV106
 Lab File ID : ADP1024
 Sample No : WG1988303-5
 Channel :

Lab Number : L2460992
 Project Number : 200112
 Calibration Date : 10/25/24 01:14
 Init. Calib. Date(s) : 10/09/24 10/11/24
 Init. Calib. Times : 20:07 15:53

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
1,4-Dioxane	0.485	0.457	-	5.8	20	134	0
n-Decane	1.486	1.456	-	2	20	133	0
IS3_Acenaphthene-d10	1	1	-	0	20	116	0
Atrazine	0.415	0.341	-	17.8	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	125	0
n-Octadecane	0.485	0.41	-	15.5	20	106	0
Parathion	5	4.121	-	17.6	20	117	0
3,3'-Dimethylbenzidine	0.821	0.618	-	24.7*	20	104	0

* Value outside of QC limits.



Matrix Spike Sample Summary

Form 3

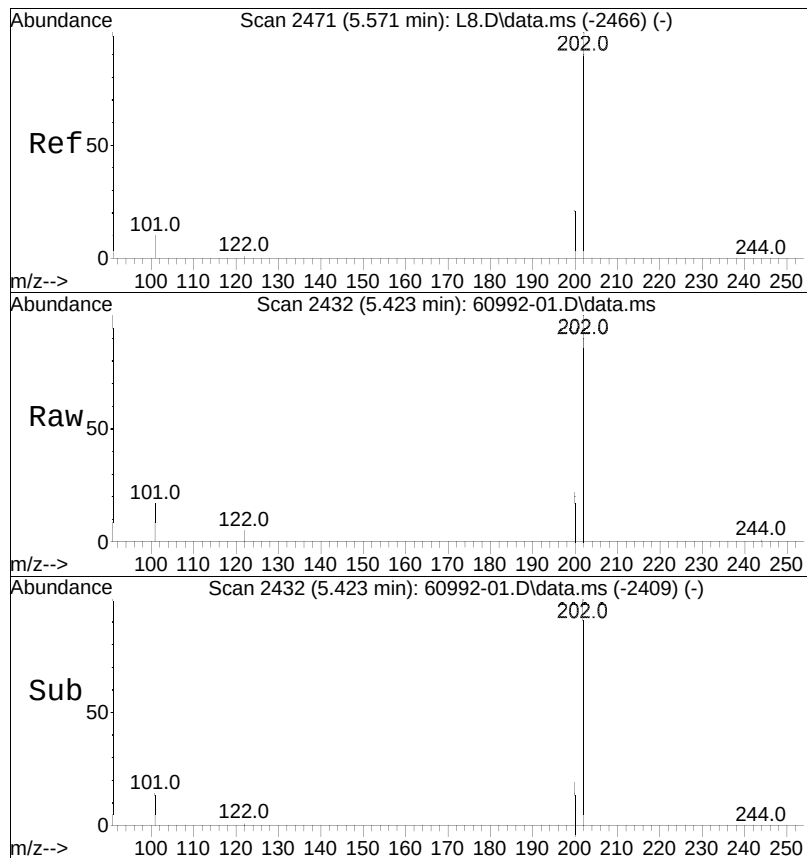
Semivolatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988751-4
 Matrix Spike Dup : WG1988751-5

Lab Number : L2460992
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 10/25/24 14:52
 MS Analysis Date : 10/25/24 14:19
 MSD Analysis Date : 10/25/24 14:36

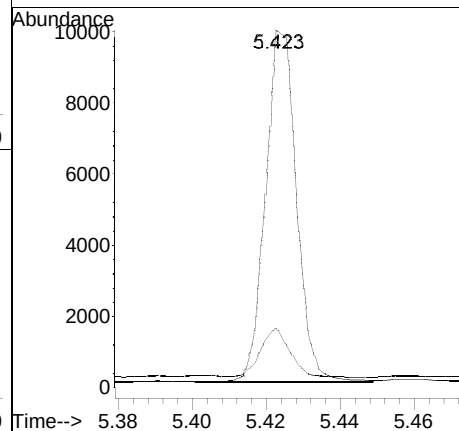
Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Acenaphthene	5.5	20	22	83	20	21	78	5	40-140	40
2-Chloronaphthalene	0.03J	20	13	65	20	13	65	0	40-140	40
Fluoranthene	4.3	20	19	74	20	18	69	5	40-140	40
Hexachlorobutadiene	ND	20	14	70	20	13	65	7	40-140	40
Naphthalene	18	20	33	75	20	26	40	24	40-140	40
Benzo(a)anthracene	0.27	20	21	100	20	20	99	5	40-140	40
Benzo(a)pyrene	0.15	20	20	99	20	19	94	5	40-140	40
Benzo(b)fluoranthene	0.19	20	19	94	20	18	89	5	40-140	40
Benzo(k)fluoranthene	0.06J	20	18	90	20	17	85	6	40-140	40
Chrysene	0.17	20	18	89	20	17	84	6	40-140	40
Acenaphthylene	0.11	20	15	74	20	14	69	7	40-140	40
Anthracene	2.8	20	20	86	20	19	81	5	40-140	40
Benzo(ghi)perylene	0.11	20	21	100	20	20	99	5	40-140	40
Fluorene	8.0	20	23	75	20	22	70	4	40-140	40
Phenanthrene	21	20	38	85	20	36	75	5	40-140	40
Dibenzo(a,h)anthracene	0.03J	20	22	110	20	21	110	5	40-140	40
Indeno(1,2,3-cd)pyrene	0.11	20	23	110	20	22	110	4	40-140	40
Pyrene	2.9	20	18	76	20	18	76	0	40-140	40
2-Methylnaphthalene	2.2	20	16	69	20	15	64	6	40-140	40
Pentachlorophenol	ND	20	6.0	30 Q	20	3.4	17 Q	55 Q	40-140	40
Hexachlorobenzene	0.05J	20	21	110	20	19	95	10	40-140	40
Hexachloroethane	ND	20	16	80	20	15	75	6	40-140	40

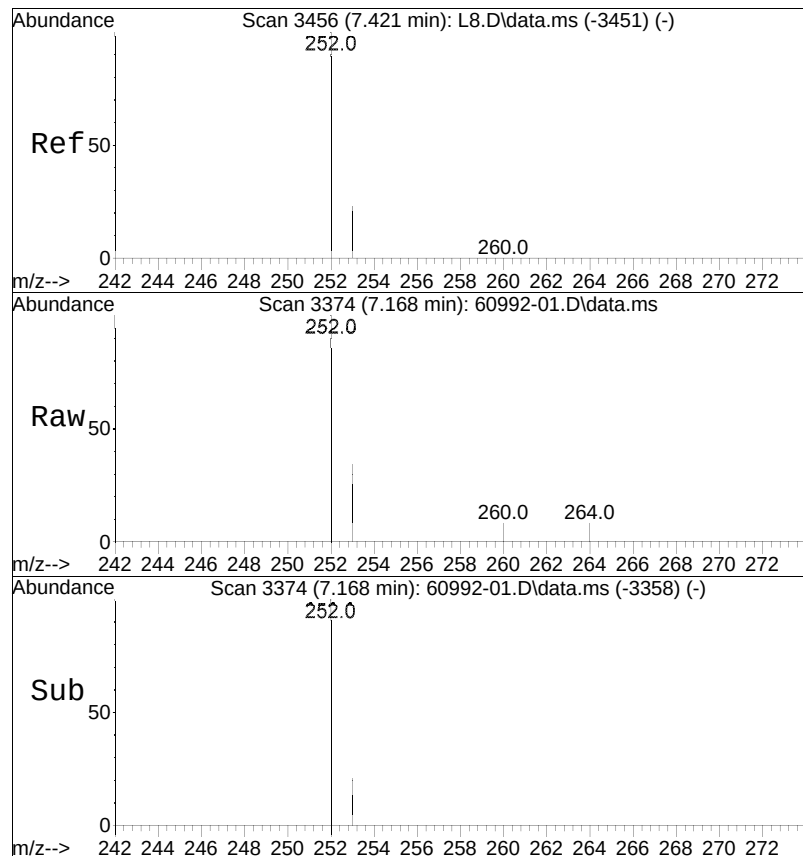




#28
 Fluoranthene
 Concen: 9.93 ng/ml
 RT: 5.423 min Scan# 2432
 Delta R.T. -0.014 min
 Lab File: 60992-01.D
 Acq: 25 Oct 2024 01:45 pm

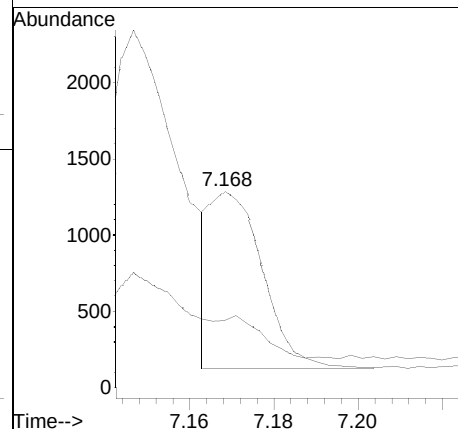
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	8.2	12.2#

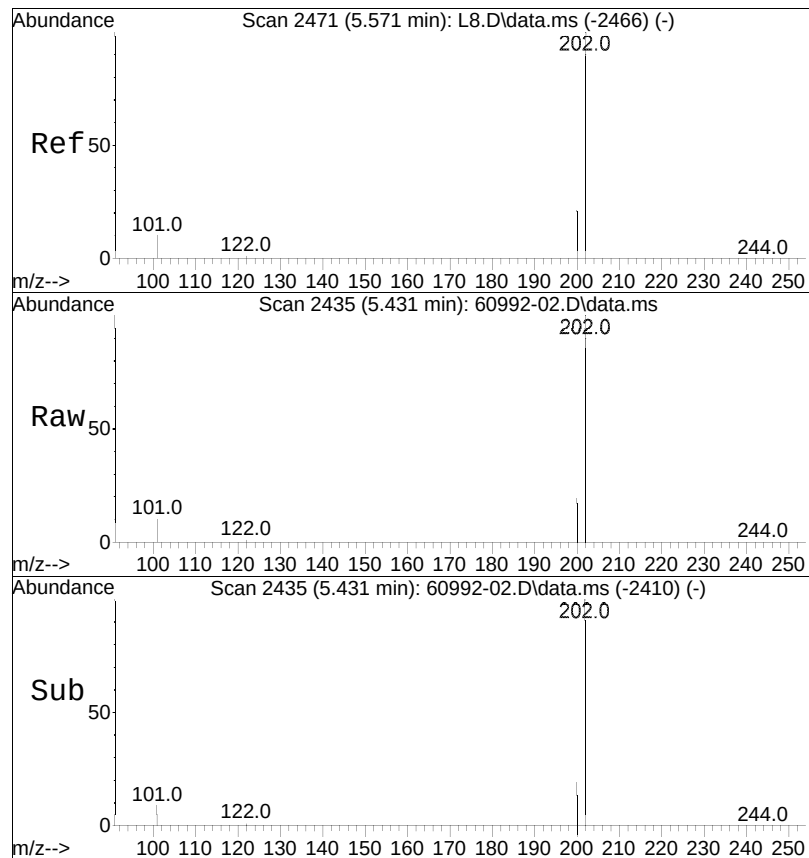




#38
 Benzo[k]fluoranthene
 Concen: 1.90 ng/ml M3
 RT: 7.168 min Scan# 3374
 Delta R.T. -0.038 min
 Lab File: 60992-01.D
 Acq: 25 Oct 2024 01:45 pm

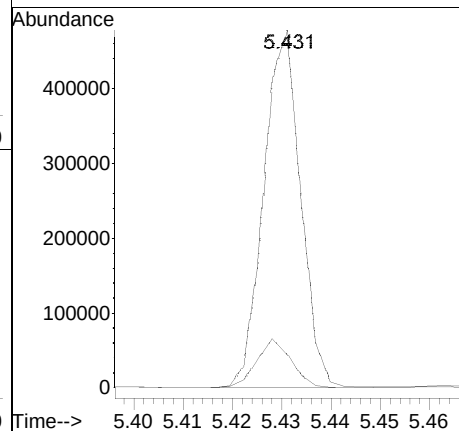
Tgt Ion	Ratio	Lower	Upper
252	100		
253	16.7	18.2	27.2#

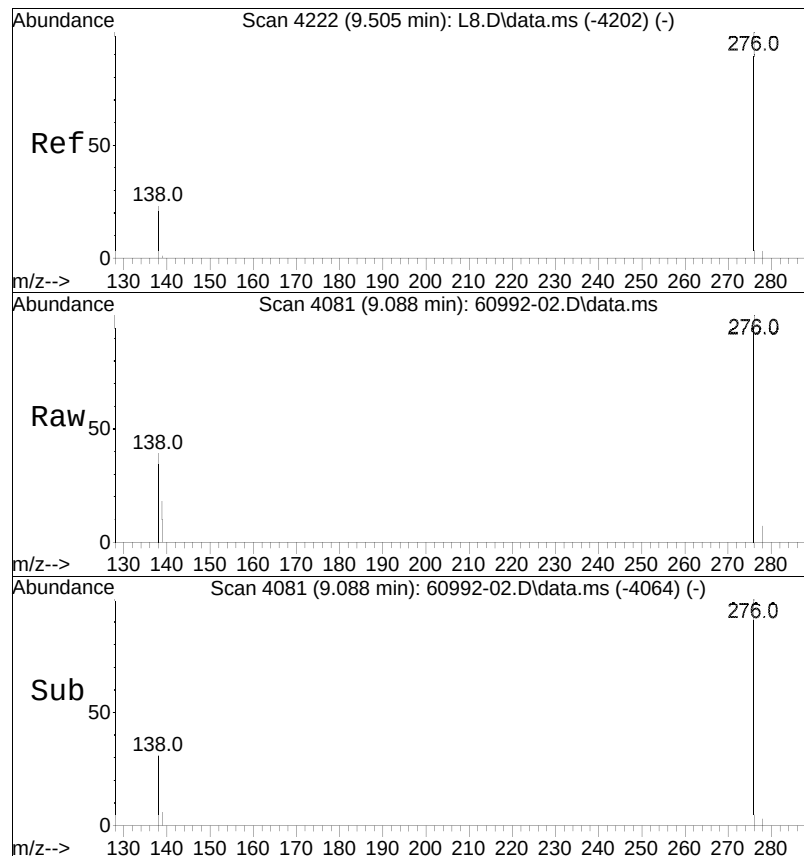




#28
 Fluoranthene
 Concen: 455.94 ng/ml
 RT: 5.431 min Scan# 2435
 Delta R.T. -0.006 min
 Lab File: 60992-02.D
 Acq: 25 Oct 2024 02:02 pm

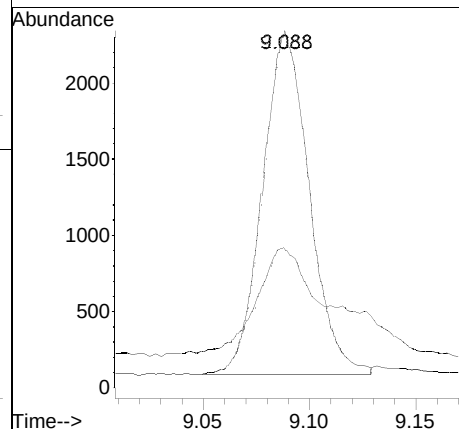
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		244637		
101	12.7	8.2	12.2#		

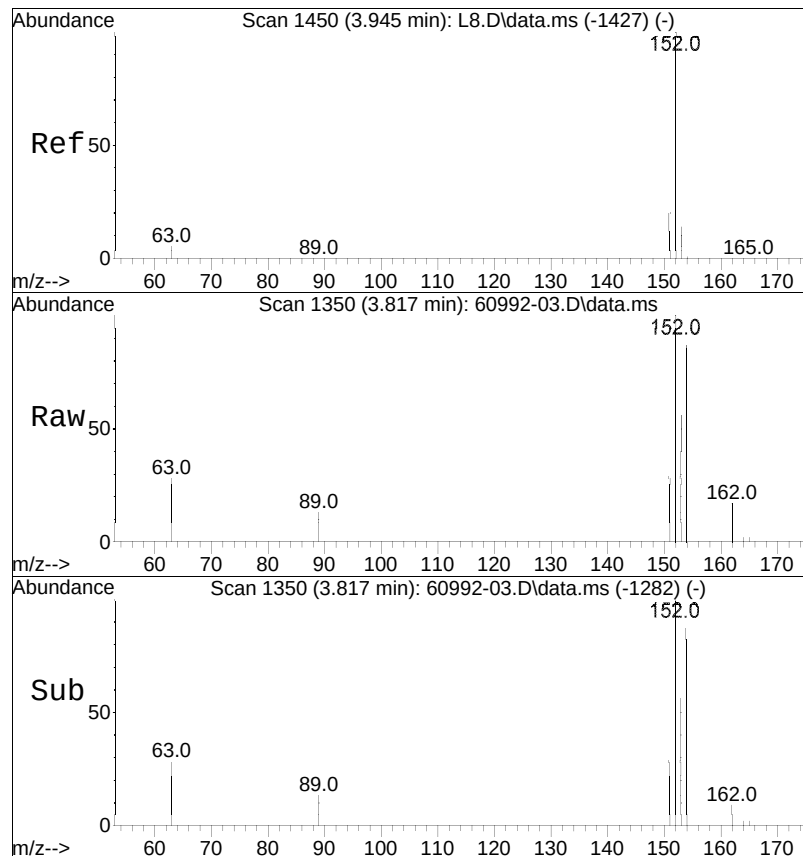




#42
 Benzo[g,h,i]perylene
 Concen: 9.14 ng/ml M6
 RT: 9.088 min Scan# 4081
 Delta R.T. -0.034 min
 Lab File: 60992-02.D
 Acq: 25 Oct 2024 02:02 pm

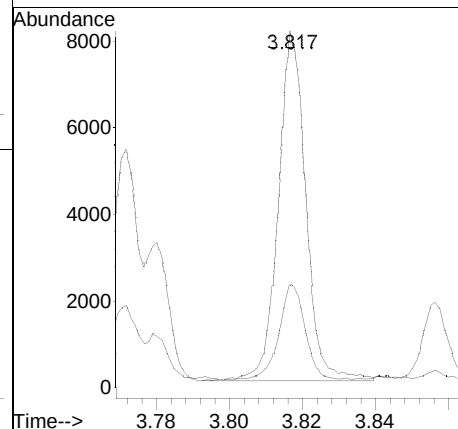
Tgt Ion	Ratio	Lower	Upper
276	100		
138	33.6	18.6	28.0#

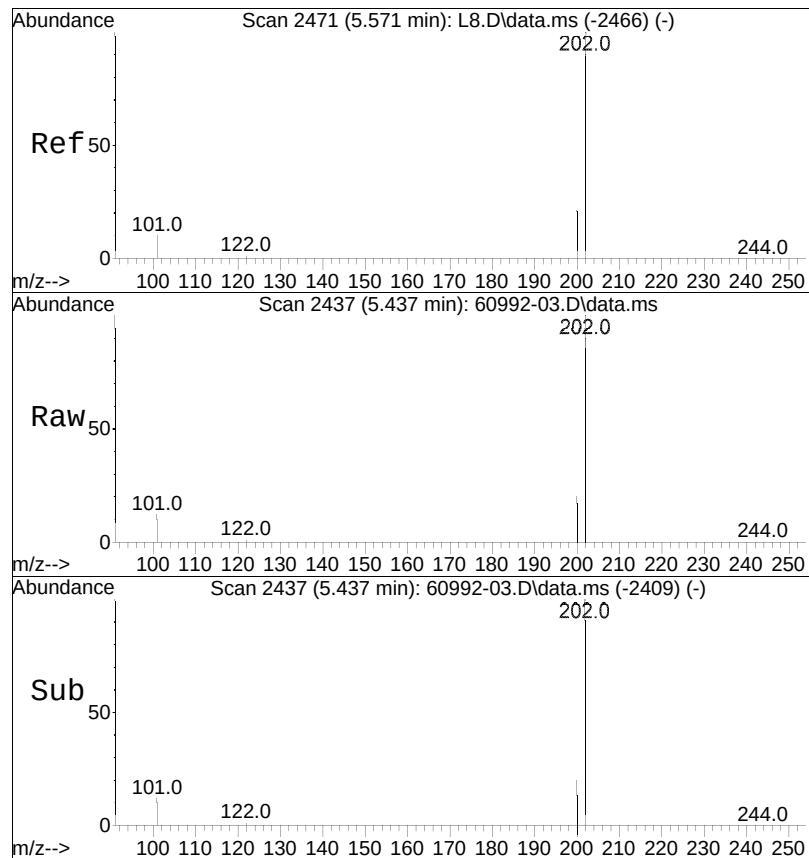




#16
 Acenaphthylene
 Concen: 11.13 ng/ml
 RT: 3.817 min Scan# 1350
 Delta R.T. 0.002 min
 Lab File: 60992-03.D
 Acq: 25 Oct 2024 02:52 pm

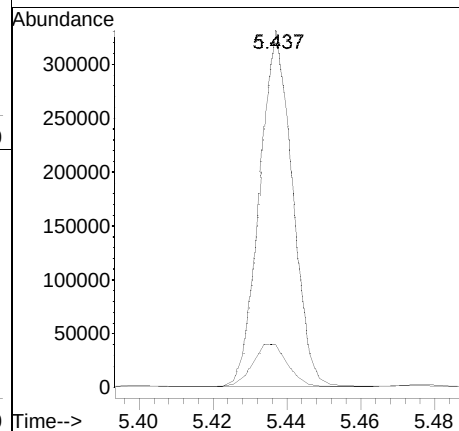
Tgt Ion	Ratio	Lower	Upper
152	100		
151	26.0	15.9	23.9#

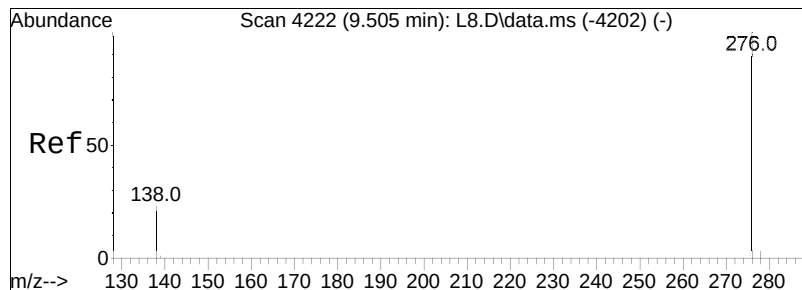




#28
 Fluoranthene
 Concen: 429.83 ng/ml
 RT: 5.437 min Scan# 2437
 Delta R.T. 0.000 min
 Lab File: 60992-03.D
 Acq: 25 Oct 2024 02:52 pm

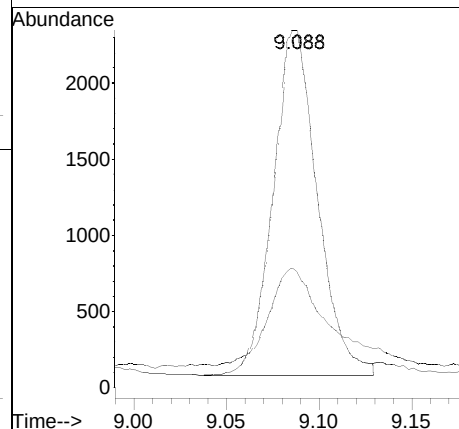
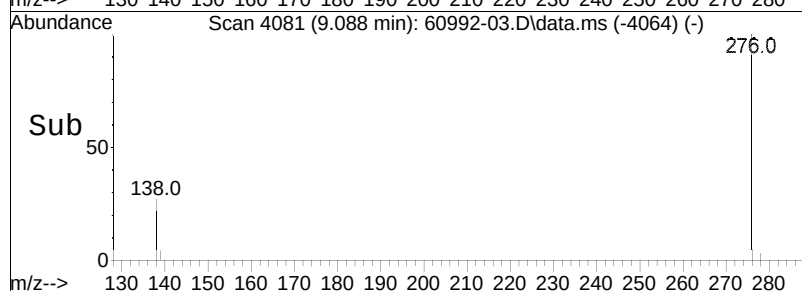
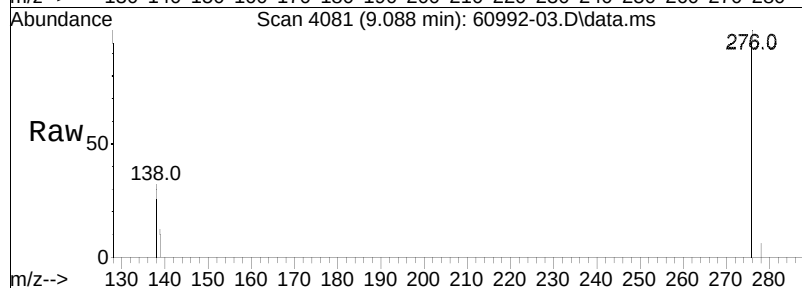
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	12.8	8.2	12.2#	





#42
Benzo[g,h,i]perylene
Concen: 11.05 ng/ml
RT: 9.088 min Scan# 4081
Delta R.T. -0.034 min
Lab File: 60992-03.D
Acq: 25 Oct 2024 02:52 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	38.7	18.6	28.0#



Calibration Verification Summary

Form 7

PCBs

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : PEST23
 Lab File ID : 23241025a-04
 Sample No : WG1989058-1
 Channel : A

Lab Number : L2460992
 Project Number : 200112
 Calibration Date : 10/25/24 08:18
 Init. Calib. Date(s) : 09/16/24 09/16/24
 Init. Calib. Times : 15:23 17:44

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	120	0
2,4,5,6-Tetrachloro-m-xylene	1.384	1.225	-	11.5	20	113	0
Decachlorobiphenyl	1.105	0.944	-	14.6	20	114	-.02
1016-1	0.025	0.021	-	16	20	116	0
1016-2	0.052	0.048	-	7.7	20	124	0
1016-3	0.106	0.092	-	13.2	20	115	.01
1016-4	0.045	0.04	-	11.1	20	123	.01
1016-5	0.045	0.041	-	8.9	20	118	.01
1260-1	0.098	0.087	-	11.2	20	121	.03
1260-2	0.103	0.097	-	5.8	20	128	.03
1260-3	0.063	0.049	-	22.2*	20	105	.03
1260-4	0.141	0.109	-	22.7*	20	102	.03
1260-5	0.101	0.081	-	19.8	20	106	.03

* Value outside of QC limits.



Calibration Verification Summary

Form 7

PCBs

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : PEST23
 Lab File ID : 23241025a-04
 Sample No : WG1989058-1
 Channel : B

Lab Number : L2460992
 Project Number : 200112
 Calibration Date : 10/25/24 08:18
 Init. Calib. Date(s) : 09/16/24 09/16/24
 Init. Calib. Times : 15:23 17:44

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	149	0
2,4,5,6-Tetrachloro-m-xylene	1.635	1.343	-	17.9	20	132	0
Decachlorobiphenyl #2	1.388	1.101	-	20.7*	20	129	-.01
1016-1 #2	0.03	0.023	-	23.3*	20	132	.01
1016-2 #2	0.064	0.052	-	18.8	20	138	.01
1016-3 #2	0.126	0.108	-	14.3	20	143	.02
1016-4 #2	0.047	0.038	-	19.1	20	136	.02
1016-5 #2	0.035	0.027	-	22.9*	20	132	.02
1260-1 #2	0.085	0.073	-	14.1	20	140	.03
1260-2 #2	0.108	0.102	-	5.6	20	149	.03
1260-3 #2	0.067	0.053	-	20.9*	20	123	.03
1260-4 #2	0.157	0.126	-	19.7	20	124	.03
1260-5 #2	0.149	0.12	-	19.5	20	127	.03

* Value outside of QC limits.



Surrogate Recovery Summary

Form 2

Pesticides

Client: AKRF, Inc.
Project Name: BUD NORTH

Lab Number: L2460992
Project Number: 200112
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-03_20241018 (L2460992-01)	47	46	37	51			0
MW-02_20241018 (L2460992-02)	49	35	43	56			0
MW-01_20241018 (L2460992-03)	39	34	34	49			0
FB_20241018 (L2460992-04)	59	58	49	63			0
MW-0X_20241018 (L2460992-05)	48	39	49	64			0
WG1988437-1BLANK	63	64	53	54			0
WG1988437-2LCS	62	61	53	51			0
WG1988437-3LCSD	63	64	56	51			0
MW-01_20241018MS	42	38	36	52			0
MW-01_20241018MSD	41	38	40	53			0

QC LIMITS

(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE

(30-150) DCBP = DECACHLOROBIPHENYL

* Values outside of QC limits

FORM II NYTCL-8081



Matrix Spike Sample Summary

Form 3

Pesticides

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988437-4
 Matrix Spike Dup : WG1988437-5

Lab Number : L2460992
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 10/25/24 10:18
 MS Analysis Date : 10/25/24 10:29
 MSD Analysis Date : 10/25/24 10:40

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Delta-BHC	ND	0.357	0.269P	75	0.357	0.240P	67	11	30-150	30
Lindane	ND	0.357	0.289	81	0.357	0.280	78	3	30-150	30
Alpha-BHC	ND	0.357	0.623P	174 Q	0.357	0.656P	184 Q	5	30-150	30
Beta-BHC	ND	0.357	0.175	49	0.357	0.264	74	41 Q	30-150	30
Heptachlor	ND	0.357	0.270P	76	0.357	0.252P	71	7	30-150	30
Aldrin	ND	0.357	0.165	46	0.357	0.218	61	28	30-150	30
Heptachlor epoxide	ND	0.357	0.135P	38	0.357	0.143P	40	6	30-150	30
Endrin	ND	0.357	0.178	50	0.357	0.189	53	6	30-150	30
Endrin aldehyde	ND	0.357	0.114	32	0.357	0.113	32	1	30-150	30
Endrin ketone	ND	0.357	0.154	43	0.357	0.166	46	8	30-150	30
Dieldrin	ND	0.357	0.160	45	0.357	0.174	49	8	30-150	30
4,4'-DDE	ND	0.357	0.153	43	0.357	0.162	45	6	30-150	30
4,4'-DDD	ND	0.357	0.148	41	0.357	0.159	44	7	30-150	30
4,4'-DDT	ND	0.357	0.143	40	0.357	0.156	44	9	30-150	30
Endosulfan I	ND	0.357	0.150	42	0.357	0.155	43	3	30-150	30
Endosulfan II	ND	0.357	0.146	41	0.357	0.164	46	12	30-150	30
Endosulfan sulfate	ND	0.357	0.147	41	0.357	0.153	43	4	30-150	30
Methoxychlor	ND	0.357	0.163	46	0.357	0.161	45	1	30-150	30
cis-Chlordane	ND	0.357	0.148	41	0.357	0.155	43	5	30-150	30
trans-Chlordane	ND	0.357	0.206P	58	0.357	0.221P	62	7	30-150	30



Form 1

METALS

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Lab ID : L2460992-04
 Client ID : FB_20241018
 Sample Location : NY
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1990203.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2460992
 Project Number : 200112
 Date Collected : 10/18/24 15:00
 Date Received : 10/18/24
 Date Analyzed : 10/29/24 15:15
 Dilution Factor : 1
 Analyst : SMV
 Instrument ID : ICPMSQ
 %Solids : N/A
 Date Digested : 10/23/24

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00063	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	0.0434	0.100	0.0394	J
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U



Form 3 Blanks

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	22.7	J	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.294	J	0.307	J	0.295	J	0.270	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U



Form 3 Blanks

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	Q
Aluminum			3.27	U	3.27	U	3.27	U	
Antimony			0.429	U	0.429	U	0.429	U	
Arsenic			0.165	U	0.165	U	0.165	U	
Barium			0.173	U	0.173	U	0.173	U	
Beryllium			0.107	U	0.107	U	0.107	U	
Cadmium			0.0599	U	0.0599	U	0.0599	U	
Calcium			39.4	U	39.4	U	39.4	U	
Chromium			0.178	U	0.178	U	0.178	U	
Cobalt			0.163	U	0.163	U	0.163	U	
Copper			0.384	U	0.384	U	0.384	U	
Iron			19.1	U	19.1	U	33.0	J	
Lead			0.343	U	0.343	U	0.343	U	
Magnesium			24.2	U	24.2	U	24.2	U	
Manganese			0.440	U	0.440	U	0.740	J	
Nickel			0.556	U	0.556	U	0.556	U	
Potassium			30.9	U	30.9	U	30.9	U	
Selenium			1.73	U	1.73	U	1.73	U	
Silver			0.163	U	0.163	U	0.163	U	
Sodium			29.3	U	29.3	U	29.3	U	
Thallium			0.382	J	0.268	J	0.262	J	
Vanadium			1.57	U	1.57	U	1.57	U	
Zinc			3.41	U	3.41	U	3.41	U	



Form 3 Blanks

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	Q
Aluminum			3.27	U	3.27	U	3.27	U	
Antimony			0.429	U	0.429	U	0.429	U	
Arsenic			0.165	U	0.165	U	0.165	U	
Barium			0.173	U	0.173	U	0.173	U	
Beryllium			0.107	U	0.107	U	0.107	U	
Cadmium			0.0599	U	0.0599	U	0.0599	U	
Calcium			39.4	U	39.4	U	39.4	U	
Chromium			0.178	U	0.178	U	0.178	U	
Cobalt			0.163	U	0.163	U	0.163	U	
Copper			0.384	U	0.384	U	0.384	U	
Iron			19.1	U	30.4	J	19.1	U	
Lead			0.343	U	0.343	U	0.343	U	
Magnesium			24.2	U	24.2	U	24.2	U	
Manganese			0.440	U	0.440	U	0.440	U	
Nickel			0.556	U	0.556	U	0.556	U	
Potassium			30.9	U	30.9	U	30.9	U	
Selenium			1.73	U	1.73	U	1.73	U	
Silver			0.163	U	0.163	U	0.163	U	
Sodium			29.3	U	29.3	U	29.3	U	
Thallium			0.262	J	0.268	J	0.279	J	
Vanadium			1.57	U	1.57	U	1.57	U	
Zinc			3.41	U	3.41	U	3.41	U	



Form 3 Blanks

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q
Aluminum			3.27	U	3.27	U		
Antimony			0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U		
Barium			0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U		
Chromium			0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U		
Copper			0.384	U	0.384	U		
Iron			19.1	U	19.1	U		
Lead			0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U		
Manganese			0.440	U	0.440	U		
Nickel			0.556	U	0.556	U		
Potassium			30.9	U	30.9	U		
Selenium			1.73	U	1.73	U		
Silver			0.163	U	0.163	U		
Sodium			29.3	U	29.3	U		
Thallium			0.258	J	0.271	J		
Vanadium			1.57	U	1.57	U		
Zinc			3.41	U	3.41	U		



Form 4a

Interference Check Sample

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112
Concentration Units : ug/l

Analyte	True		Initial Found				Final Found			
	Lab ID :		R1893376-3							
	Analysis Date :		10/29/24 06:26							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	100000		109000	109						
Antimony			0.231							
Arsenic			0.425							
Barium			1.38							
Beryllium			0.0237							
Cadmium			0.684							
Calcium	300000		309000	103						
Chromium			1.61							
Cobalt			2.15							
Copper			1.04							
Iron	250000		254000	102						
Lead			1.70							
Magnesium	100000		108000	108						
Manganese			4.74							
Nickel			2.68							
Potassium	100000		113000	113						
Selenium			2.92							
Silver			0.0260							
Sodium	250000		283000	113						
Thallium			0.109							
Vanadium			0.0275							
Zinc			2.10							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 5a Matrix Spike

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1989134-4
 Matrix Spike Dup : WG1989134-5

Lab Number : L2460992
 Project Number : 200112
 Matrix : WATER
 MS Analysis Date : 10/25/24 17:27
 MSD Analysis Date : 10/25/24 17:28

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Cyanide, Total	0.714	0.2	0.990	138 Q	0.2	0.887	86	11	80-120	20



Form 4a

Interference Check Sample

Client : AKRF, Inc.
Project Name : BUD NORTH
Instrument ID : ICPMSQ

Lab Number : L2460992
Project Number : 200112
Concentration Units : ug/l

Analyte	True		Initial Found				Final Found			
	Lab ID :		R1893376-3							
	Analysis Date :		10/29/24 06:26							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	100000		109000	109						
Antimony			0.231							
Arsenic			0.425							
Barium			1.38							
Beryllium			0.0237							
Cadmium			0.684							
Calcium	300000		309000	103						
Chromium			1.61							
Cobalt			2.15							
Copper			1.04							
Iron	250000		254000	102						
Lead			1.70							
Magnesium	100000		108000	108						
Manganese			4.74							
Nickel			2.68							
Potassium	100000		113000	113						
Selenium			2.92							
Silver			0.0260							
Sodium	250000		283000	113						
Thallium			0.109							
Vanadium			0.0275							
Zinc			2.10							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 5a Matrix Spike

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1988204-3
 Matrix Spike Dup : WG1988204-4

Lab Number : L2460992
 Project Number : 200112
 Matrix : WATER
 MS Analysis Date : 10/29/24 16:53
 MSD Analysis Date : 10/29/24 16:57

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Aluminum, Total	0.226	2	2.19	98	2	2.28	103	4	75-125	20
Antimony, Total	0.01620	0.5	0.5218	101	0.5	0.5507	107	5	75-125	20
Arsenic, Total	0.01119	0.12	0.1341	102	0.12	0.1426	110	6	75-125	20
Barium, Total	0.08911	2	2.153	103	2	2.248	108	4	75-125	20
Beryllium, Total	ND	0.05	0.05270	105	0.05	0.05408	108	3	75-125	20
Cadmium, Total	ND	0.053	0.05205	98	0.053	0.05521	104	6	75-125	20
Calcium, Total	169.	10	194.	250 Q	10	202.	330 Q	4	75-125	20
Chromium, Total	0.00111	0.2	0.1908	95	0.2	0.1995	99	4	75-125	20
Cobalt, Total	0.00138	0.5	0.4844	97	0.5	0.5014	100	3	75-125	20
Copper, Total	0.00225	0.25	0.2474	98	0.25	0.2608	103	5	75-125	20
Iron, Total	0.774	1	1.97	120	1	1.87	110	5	75-125	20
Lead, Total	0.00945	0.53	0.5413	100	0.53	0.5877	109	8	75-125	20
Magnesium, Total	44.7	10	54.0	93	10	56.1	114	4	75-125	20
Manganese, Total	0.1364	0.5	0.6244	98	0.5	0.6480	102	4	75-125	20
Nickel, Total	0.00624	0.5	0.4855	96	0.5	0.5100	101	5	75-125	20
Potassium, Total	58.2	10	67.8	96	10	70.9	127 Q	4	75-125	20
Selenium, Total	ND	0.12	0.0254J	21 Q	0.12	0.0288J	24 Q	13	75-125	20
Silver, Total	ND	0.05	0.04694	94	0.05	0.05035	101	7	75-125	20
Sodium, Total	300.	10	293.	0 Q	10	300.	0 Q	2	75-125	20
Thallium, Total	ND	0.12	0.1164	97	0.12	0.1265	105	8	75-125	20
Vanadium, Total	0.00859	0.5	0.4920	97	0.5	0.5106	100	4	75-125	20
Zinc, Total	0.00691J	0.5	0.4894	98	0.5	0.5136	103	5	75-125	20



Form 5a Matrix Spike

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-01_20241018
 Lab Sample ID : L2460992-03
 Matrix Spike : WG1986390-4
 Matrix Spike Dup : WG1986390-5

Lab Number : L2460992
 Project Number : 200112
 Matrix : WATER
 MS Analysis Date : 10/19/24 06:10
 MSD Analysis Date : 10/19/24 06:10

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			%R	Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit	
		Spike Added (mg/l)	Spike Conc. (mg/l)			Spike Added (mg/l)	Spike Conc. (mg/l)	%R				
Chromium, Hexavalent	ND	0.1	0.037J	37	Q	0.1	0.035J	35	Q	6	85-115	20



December 6, 2024

Mr. Patrick Diggins
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7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2461002

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Alpha Analytical for three soil vapor samples from the Bud North site, which were reported in a single data package under Job No. L2461002 has been completed. The following samples were reported:

INF_20241018

INT_20241018

EFF_20241018

Analyses were performed in accordance with USEPA Method TO-15 (Volatile Organics). The review was performed to the extent possible, in accordance with the analytical methods and “DER-10/ Technical Guidance for Site Investigation and Remediation”. Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, sample results are usable, as reported. No qualification of sample results is made.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
 - Method blanks
 - Field blanks
 - Trip Blanks
 - Surrogate recoveries
 - LCS/LCSD recoveries
 - MS/MSD recoveries
 - Internal standards
 - Serial dilutions
 - Duplicates
- Instrument related quality control data:
 - Instrument tunes
 - Calibration summaries
 - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Holding Times, Preservation, Sample Integrity:

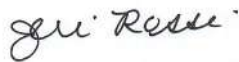
A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of October 18, 2024. The samples were received at the laboratory on the same day as sample collection. All samples were received intact and analyzed within method holding time.

Calibration

One initial calibration (IC) was performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r^2) are acceptable, with the RSD for dichlorodifluoromethane (RSD=31.4%). The high RSD is attributed to a high response in the lowest concentration standard in the IC, and based on the technical judgment of the validator, no action is warranted.

Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jeri Rossi".

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

- U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration 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 are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

December 6, 2024

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2461048

Dear Mr. Diggins:

The evaluation of analytical data by Alpha Analytical for four aqueous samples and one field blank from the Bud North site, which were reported in a single data package under Job No. L2461048 has been completed. The following samples were reported:

MW-03_20241018	MW-02_20241018
MW-01_20241018	MW-0X_20241018
FB_20241018	

Analyses were performed in accordance with USEPA Method 1633 [Per- and Polyfluoroalkyl Substances (PFAS)]. The review was performed to the extent possible, in accordance with the analytical method, “Sampling, Analysis, and Assessment of Per-And Polyfluoroalkyl Substances (PFAS) under NYSDEC’s Part 375 Remedial Programs”, April 2023 and “DER-10/ Technical Guidance for Site Investigation and Remediation”. Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes

6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The results for all target analytes in MW-03_20241018 are qualified as estimated (J-, UJ) because the entire sample volume was not used.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
 - Method, instrument blanks
 - Field blanks
 - Labeled analog recoveries
 - OPR and LL OPR recoveries
 - MS/MSD recoveries
 - Extracted internal standards (EIS) and non-extracted internal standards (NIS)
 - Duplicates
 - Analyte Identification
- Instrument related quality control data:
 - Instrument tunes
 - Calibration summaries

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of October 18, 2024. The samples were received at the laboratory on the same day as sample collection. All samples were received intact and analyzed within method holding time.

Analyte Quantitation

The results for all target analytes in MW-03_20241018 are qualified as estimated (J-, UJ) because a subsample was used for extraction and not the entire sample volume. Because the entire sample was not used, the sample bottles could not be rinsed. This step is critical to catch any PFAS that adsorbs to the surface of the bottle. Detected analytes may be biased low and nondetected analytes may be false negatives.

Field Duplicates

MW-0X_20241018 was submitted as a field duplicate of MW-02_20241018. Precision is acceptable ($RPD \leq 30$) as presented below. Detections below the reporting limit are not evaluated.

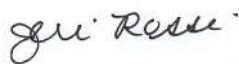
Analyte	MW-02_20241018 (ng/L)	MW-0X_20241018 (ng/L)	RPD
Perfluorobutanesulfonic acid	15.2	13.2	20
Perfluorobutanoic acid	37	34	8
Perfluorodecanoic acid	1.01 (J)	1.15 (J)	nc
Perfluoroheptanoic acid	17.1	15.9	7
Perfluorohexanesulfonic acid	5.93	5.32	11
Perfluorohexanoic acid	57.1	53	7
Perfluorononanoic acid	3.66	3.82	4
Perfluorooctanesulfonic acid (PFOS)	15.9	18.7	16
Perfluorooctanoic acid	54.9	50.2	9
Perfluoropentanesulfonic	1.32 (J)	0.49 (J)	nc

acid			
Perfluoropentanoic acid	60.1	62.3	4
Perfluoroundecanoic acid	1.52 (U)	0.349 (J)	nc

nc-not calculated

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,



Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

- U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
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- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration 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 are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

of

Date Rec'd
in Lab

10/19/24

ALPHA Job #

12461048

Project Information

Project Name: BUD North

Project Location:

Project # 200112

(Use Project name as Project #) ☐

Project Manager:

ALPHAQuote #:

Turn-Around Time

Standard ☒

Due Date:

Rush (only if pre approved) ☐

of Days:

Deliverables

☐ ASP-A

☒ ASP-B

☐ EQUIS (1 File)

☐ EQUIS (4 File)

☐ Other

Billing Information

☐ Same as Client Info

PO #

Regulatory Requirement

☒ NY TOGS

☐ NY Part 375

☐ AWQ Standards

☐ NY CP-51

☐ NY Restricted Use

☐ Other

☐ NY Unrestricted Use

☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ

☐ NY

☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

ARF EQUIS, CAT B, Close S/G

Please specify Metals or TAL.

ANALYSIS

Sample Filtration

☐ Done

☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample
Matrix

Sampler's
Initials

61048-01
-02
-03
-04
-05

MW-03-20241018
MW-02-20241018
MW-01-20241018
MW-0X-20241018
FB-20241018

10/18/24 1240
1350
1545
1230
1500

GW
I
I
I
W

MB
I
I
I
I

pfes-1633

Preservative Code:

A = None

B = HCl

C = HNO₃

D = H₂SO₄

E = NaOH

F = MeOH

G = NaHSO₄

H = Na₂S₂O₃

K/E = Zn Ac/NaOH

O = Other

Container Code

P = Plastic

A = Amber Glass

V = Vial

G = Glass

B = Bacteria Cup

C = Cube

O = Other

E = Encore

D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:

Date/Time

Received By:

Date/Time

Mika Bates

10/18/24 1700

ARF

10/18/24 1200

ARF

10/18/24 1850

ARF

10/18/24 1950

ARF

10/18/24

ARF

10/18/24 2220

ARF

10/19/24 0130

ARF

10/19/24 0600

ARF

10/19/24 0740

ARF

10/19/24 0740

ATTACMENT C
SSDS AND SVES INSPECTION LOGS

SSDS MONITORING INSPECTION FORM			
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY			
Inspector Name: Mike Bates		Date: 10/17/2024	
Time In: 830		Time Out: 1500	
General			
Weather: Sunny	Temperature: 54-57 deg F	Barometric Pressure: 30.24	
1. When was the last rain event? Over two weeks prior to inspection.			
2. Is the blower currently operating? Yes <i>If no, please list reason/alarm condition:</i>			
3. Any evidence of system tampering, vandalism or damage in the first floor equipment room? - No			
4. Is air discharging from the exhaust piping to the roof? - Yes			
5. Any evidence of system tampering, vandalism, or damage to the exhaust stack? - No			
6. Were all cleanout/sampling port caps securely attached prior to system testing? - Yes <i>If no, list location and contact Project Manager/Project Director.</i>			
7. Is the concrete floor slab overlying all of the SSDS piping runs intact? - Yes <i>If no, list location and contact Project Manager/Project Director.</i>			

SSDS MONITORING INSPECTION FORM					
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY					
Inspector Name: Mike Bates			Date: 10/17/2024		
Time In: 830			Time Out: 1500		
SSDS Operations					
Blower Inlet PID (ppm)					
Monitoring Point (MP) or Riser Leg (RL) Identification	Location	Applied Vacuum ¹ in. H ₂ O	Induced Vacuum ² in. H ₂ O	Flow Rate ¹ cfm	Notes
MP-01	Incoming Water Room	NA	1.14	NA	
MP-02	West Compactor/Recycle Room	NA	1.22	NA	
MP-03	West Compactor/Recycle Room	NA	1.18	NA	
MP-04	Fire Pump Room	NA	1.05	NA	
MP-05	Garage Storage	NA	-	NA	Covered
MP-06	Back of House Vestibule	NA	1.12	NA	
MP-07	Bike Room (west)	NA	1.06	NA	
MP-08	Parking Garage	NA	-	NA	Covered
MP-09	Package Room	NA	1.04	NA	
MP-10	Bike Room (east)	NA	1.13	NA	
MP-11	SVE Equipment Room	NA	1.14	NA	
MP-12	East Compactor Room	NA	1.18	NA	
MP-13	West Compactor Room	NA	1.11	NA	
MP-14	Water Service Room / SVE Equipment Room	NA	1.10	NA	
SSDS-N1		1.6	NA	30	
SSDS-N2		2.0	NA	30	
SSDS-N3		3.0	NA	0	Flow still weak despite rebalancing. Attempts will be made to boost vacuum during Q1 2025 inspection.
SSDS-N4		2.8	NA	0	
SSDS-N5		1.7	NA	32	
SSDS-N6		1.5	NA	30	
SSDS-N7		1.7	NA	32	
SSDS-N8		2.0	NA	32	
SSDS-N9	Loading Dock	2.3	NA	20	
SSDS-N10		1.4	NA	30	
SSDS-N11		1.7	NA	25	
SSDS-N12		1.8	NA	30	
SSDS-N13		1.8	NA	30	
SSDS-N14		2.0	NA	34	
SSDS-N15		2.0	NA	30	
SSDS-N16		1.4	NA	32	
Combined applied vacuum on SSDS-1 riser =		3	NA		
Combined applied vacuum on SSDS-2 riser =		2.3	NA		

Notes:

1. Normal system flow rates range from 40 to 100 cfm. Applied vacuum readings range from 1 to 15 in. H₂O. System readings will be obtained from each riser leg (SSDS-N1 through SSDS-N16).
2. Normal system induced vacuum readings should be a minimum of 0.004 in. H₂O. System readings will be obtained from each monitoring point (MP-01 through MP-12).
3. If observations are confirmed to be outside of this range, inform emergency contacts in SMP and prepare corrective action plan, if in. of H₂O - inches of water cfm - cubic feet per minute

SVE INSPECTION LOG MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY																					
Inspector Name: Mike Bates		Date: 10/17/2024																			
Time IN: 830		Time OUT: 1500																			
GENERAL																					
Weather: Sunny	Temperature: 54-57 deg F	Barometric Pressure: 30.24	Equipment Room Temperature: 70 deg F																		
When was the last rain event? Over two weeks prior to inspection.																					
Is the SVE system being cycled on or off this month? On / Off (circle one) On <i>If issues cycling system on or off, ALERT PROJECT MANAGER and please describe issue:</i>																					
Is the SVE blower currently operating? Yes <i>If no, ALERT PROJECT MANAGER and please list reason/alarm condition:</i>																					
What is the VFD setting? 60 Hz <i>If under 30 Hz, ALERT PROJECT MANAGER:</i>																					
Is condensate in the knockout tank gauge below the low-high float sensor? Yes <i>If no, ALERT PROJECT MANAGER and manually drain knockout tank</i>																					
Is transfer pump working? Yes <i>If no, ALERT PROJECT MANAGER.</i>																					
Is 55-gallon drum full? No <i>If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.</i>																					
Any evidence of system tampering, vandalism or damage? No <i>If yes, ALERT PROJECT MANAGER and please note findings:</i>																					
Any evidence of system tampering, vandalism or damage to the exhaust stack? No <i>If yes, ALERT PROJECT MANAGER and please note findings:</i>																					
Notes: This SVE Inspection Log should be completed along with the sampling log for each sampling event. PID - Photoionization Detector; ppm - parts per million; NA - Not applicable; GAC - Granular Activated Carbon																					
Comments:																					
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Emergency Contact Information</th> </tr> <tr> <th style="width: 30%; padding: 5px;">Name</th> <th style="width: 30%; padding: 5px;">Title</th> <th style="width: 40%; padding: 5px;">Contact Number</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">Marc Godick</td> <td style="text-align: center; padding: 5px;">AKRF Project Director</td> <td style="text-align: center; padding: 5px;">914-922-2356 (office)</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Patrick Diggins</td> <td style="text-align: center; padding: 5px;">Project Manager</td> <td style="text-align: center; padding: 5px;">914-922-2356 (office)</td> </tr> <tr> <td style="text-align: center; padding: 5px;"></td> <td style="text-align: center; padding: 5px;"></td> <td style="text-align: center; padding: 5px;">603-494-7090 (cell)</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Chris Steinmann</td> <td style="text-align: center; padding: 5px;">Owner's Representative</td> <td style="text-align: center; padding: 5px;">917-295-0948 (cell)</td> </tr> </tbody> </table>				Emergency Contact Information			Name	Title	Contact Number	Marc Godick	AKRF Project Director	914-922-2356 (office)	Patrick Diggins	Project Manager	914-922-2356 (office)			603-494-7090 (cell)	Chris Steinmann	Owner's Representative	917-295-0948 (cell)
Emergency Contact Information																					
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Marc Godick	AKRF Project Director	914-922-2356 (office)																			
Patrick Diggins	Project Manager	914-922-2356 (office)																			
		603-494-7090 (cell)																			
Chris Steinmann	Owner's Representative	917-295-0948 (cell)																			

SVE INSPECTION LOG				
MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION				
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY				
SVE Operation				
CALL PROJECT MANAGER IF READING OUTSIDE ACCEPTABLE/TYPICAL RANGE (IN GRAY)				
Pre-Blower Inlet Temperature (°F): 40-80°F		Post-Blower Outlet Temperature (°F): 70-110°F		Knockout Tank Vacuum (Inches of water column): 0-50 inH2O
74		<115		0
Pre-filter Vacuum (Inches of water column): 0-50 inH2O		Post-filter Vacuum (Inches of water column): 0-50 inH2O		Post-Blower Pressure (Inches of water column): 0-20 inH2O
5		10		23
GAC Influent PID (ppm):		GAC Intermediate PID (ppm): Less than GAC Influent PID		GAC Effluent PID (ppm): <1 ppm
0.2		0.0		0
Monitoring Location	Vacuum Reading in. H2O	Air Flow Reading in. H2O	Air Flow Reading CFM	Notes
SVMP-01	1.18			
SVMP-02	1.34			
SVMP-03	1.13			
SVMP-04	1.04			
SVMP-05	1.29			
SVMP-06	1.14			
SVE-01	3.0		36	
SVE-02	4.5		25	
SVE-03	2.3		32	
SVE-04	3.5		30	
SVE-05	4.0		20	

ATTACMENT D
DAR-1 SUMMARY

		Facility Wide														
CAS NUMBER	CHEMICAL NAME	SGC (µg/m³)	AGC (µg/m³)	Toxicity				Scaled Max Impact (µg/m3)			ERP			Actual	Initial	ER
					ERP (lb/hr)	ERP (lb/yr)	annual (lb/yr)	1-hr	Annual-ERP	Annual-Actual	%SGC	%AGC	%AGC	ER		
00071-55-6	METHYL CHLOROFORM	9000	5000	L	2.7E-06	0.023645	0.023644894	4.16E-04	4.16E-05	4.16E-05	0.0%	0.0%	0.0%	C	None	
00079-34-5	TETRACHLOROETHANE, 1,1,2,2-	-----	16	M	3.39E-06	0.029719	0.029718812	5.23E-04	5.23E-05	5.23E-05	#VALUE!	0.0%	0.0%	B	None	
00079-00-5	TRICHLOROETHANE, 1,1,2-	-----	1.4	H	2.7E-06	0.023645	0.023644894	4.16E-04	4.16E-05	4.16E-05	#VALUE!	0.0%	0.0%	A	None	
00075-34-3	DICHLOROETHANE, 1,1-	-----	0.63	L	2E-06	0.017549	0.017549284	3.09E-04	3.09E-05	3.09E-05	#VALUE!	0.0%	0.0%	C	None	
00075-35-4	VINYLDIENE CHLORIDE	-----	200	M	1.96E-06	0.017202	0.017202203	3.03E-04	3.03E-05	3.03E-05	#VALUE!	0.0%	0.0%	B	None	
00120-82-1	TRICHLOROBENZENE, 1,2,4-	3700	35	M	3.66E-06	0.032105	0.032104994	5.66E-04	5.66E-05	5.66E-05	0.0%	0.0%	0.0%	B	None	
00095-63-6	TRIMETHYLBENZENE, 1,2,4-	-----	60	M	2.43E-06	0.021324	0.02132379	3.76E-04	3.76E-05	3.76E-05	#VALUE!	0.0%	0.0%	B	None	
00106-93-4	DIBROMOETHANE, 1, 2	-----	0.0017	H	3.81E-06	0.033407	0.033406547	5.88E-04	5.88E-05	5.88E-05	#VALUE!	3.5%	3.5%	A	None	
00095-50-1	DICHLOROBENZENE, ORTHO-	30000	200	M	2.97E-06	0.026031	0.026031076	4.59E-04	4.59E-05	4.59E-05	0.0%	0.0%	0.0%	B	None	
00107-06-2	DICHLOROETHANE, 1,2-	-----	0.038	H	2E-06	0.017549	0.017549284	3.09E-04	3.09E-05	3.09E-05	#VALUE!	0.1%	0.1%	A	None	
00078-87-5	PROPYLENE DICHLORIDE	-----	4	M	2.29E-06	0.020044	0.020043928	3.53E-04	3.53E-05	3.53E-05	#VALUE!	0.0%	0.0%	B	None	
00108-67-8	TRIMETHYLBENZENE, 1,3,5-	-----	60	M	2.43E-06	0.021324	0.02132379	3.76E-04	3.76E-05	3.76E-05	#VALUE!	0.0%	0.0%	B	None	
00106-99-0	BUTADIENE, 1,3-	-----	0.033	H	1.09E-06	0.009588	0.009588113	1.69E-04	1.69E-05	1.69E-05	#VALUE!	0.1%	0.1%	A	None	
00541-73-1	DICHLOROBENZENE, META-	-----	10	M	2.97E-06	0.026031	0.026031076	4.59E-04	4.59E-05	4.59E-05	#VALUE!	0.0%	0.0%	B	None	
00106-46-7	DICHLOROBENZENE, PARA-	-----	0.091	M	2.97E-06	0.026031	0.026031076	4.59E-04	4.59E-05	4.59E-05	#VALUE!	0.1%	0.1%	B	None	
00123-91-1	DIOXANE, 1,4-	3000	0.2	M	1.79E-06	0.01564	0.015640338	2.75E-04	2.75E-05	2.75E-05	0.0%	0.0%	0.0%	B	None	
00540-84-1	ISOOCTANE	-----	3300	M	2.31E-06	0.020261	0.020260854	3.57E-04	3.57E-05	3.57E-05	#VALUE!	0.0%	0.0%	B	None	
00078-93-3	METHYL ETHYL KETONE	13000	5000	M	4.71E-06	0.041216	0.04121587	7.26E-04	7.26E-05	7.26E-05	0.0%	0.0%	0.0%	B	None	
00591-78-6	METHYL BUTYL KETONE	4000	30	O	2.03E-06	0.017788	0.017787902	3.13E-04	3.13E-05	3.13E-05	0.0%	0.0%	0.0%	B	None	
00107-05-1	ALLYL CHLORIDE	600	1	M	1.55E-06	0.01358	0.013579545	2.39E-04	2.39E-05	2.39E-05	0.0%	0.0%	0.0%	B	None	
00622-96-8	BENZENE,1-ETHYL-4-METHYL-	-	0.1	-	2.43E-06	0.021324	0.02132379	3.76E-04	3.76E-05	3.76E-05	#VALUE!	0.0%	0.0%	B	None	
00108-10-1	METHYL ISOBUTYL KETONE	31000	3000	M	5.08E-06	0.04447	0.044469755	7.83E-04	7.83E-05	7.83E-05	0.0%	0.0%	0.0%	B	None	
00067-64-1	ACETONE	180000	30000	L	8.59E-05	0.752732	0.752731943	1.33E-02	1.33E-03	1.33E-03	0.0%	0.0%	0.0%	C	None	
00071-43-2	BENZENE	27	0.13	H	1.58E-06	0.013862	0.013861548	2.44E-04	2.44E-05	2.44E-05	0.0%	0.0%	0.0%	A	None	
00100-44-7	BENZYL CHLORIDE	240	0.02	H	2.58E-06	0.02256	0.022560266	3.97E-04	3.97E-05	3.97E-05	0.0%	0.2%	0.2%	A	None	
00075-27-4	BROMODICHLOROMETHANE	-----	70	M	3.32E-06	0.029068	0.029068035	5.12E-04	5.12E-05	5.12E-05	#VALUE!	0.0%	0.0%	B	None	
00075-25-2	BROMOFORM	-----	0.91	M	5.13E-06	0.044904	0.044903606	7.91E-04	7.91E-05	7.91E-05	#VALUE!	0.0%	0.0%	B	None	
00074-83-9	METHYL BROMIDE	3900	5	M	1.92E-06	0.016855	0.016855122	2.97E-04	2.97E-05	2.97E-05	0.0%	0.0%	0.0%	B	None	
00075-15-0	CARBON DISULFIDE	6200	700	M	1.54E-06	0.013514	0.013514467	2.38E-04	2.38E-05	2.38E-05	0.0%	0.0%	0.0%	B	None	
00056-23-5	CARBON TETRACHLORIDE	1900	0.17	H	3.12E-06	0.027333	0.02733263	4.81E-04	4.81E-05	4.81E-05	0.0%	0.0%	0.0%	A	None	
00108-90-7	CHLOROBENZENE	-----	60	M	2.28E-06	0.019979	0.019978851	3.52E-04	3.52E-05	3.52E-05	#VALUE!	0.0%	0.0%	B	None	
00075-00-3	ETHYL CHLORIDE	-----	10000	L	1.31E-06	0.011454	0.011453673	2.02E-04	2.02E-05	2.02E-05	#VALUE!	0.0%	0.0%	C	None	
00067-66-3	CHLOROFORM	150	14.7	H	1.84E-05	0.161501	0.161501133	2.84E-03	2.84E-04	2.84E-04	0.0%	0.0%	0.0%	A	None	
00074-87-3	CHLOROMETHANE	22000	90	M	1.02E-06	0.008959	0.008959029	1.58E-04	1.58E-05	1.58E-05	0.0%	0.0%	0.0%	B	None	
00156-59-2	DICHLOROETHYLENE, CIS-	-----	63	M	1.96E-06	0.017202	0.017202203	3.03E-04	3.03E-05	3.03E-05	#VALUE!	0.0%	0.0%	B	None	
10061-01-5	1-PROPENE,1,3-DICHLORO-,(Z)-	-	0.1	-	2.25E-06	0.019697	0.019696847	3.47E-04	3.47E-05	3.47E-05	#VALUE!	0.0%	0.0%	B	None	
00110-82-7	CYCLOHEXANE	-----	6000	L	1.7E-06	0.014924	0.014924483	2.63E-04	2.63E-05	2.63E-05	#VALUE!	0.0%	0.0%	C	None	
00124-48-1	CHLORODIBROMOMETHANE	-	0.1	-	4.21E-06	0.036877	0.036877357	6.50E-04	6.50E-05	6.50E-05	#VALUE!	0.1%	0.1%	B	None	
00075-71-8	DICHLORODIFLUOROMETHANE	-----	12000	O	0.000132	1.15296	1.152959734	2.03E-02	2.03E-03	2.03E-03	#VALUE!	0.0%	0.0%	B	None	
00064-17-5	ETHANOL	-----	45000	L	2.33E-05	0.204344	0.204343945	3.60E-03	3.60E-04	3.60E-04	#VALUE!	0.0%	0.0%	C	None	
00141-78-6	ETHYL ACETATE	-----	3400	M	4.46E-06	0.039047	0.039046614	6.88E-04	6.88E-05	6.88E-05	#VALUE!	0.0%	0.0%	B	None	
00100-41-4	ETHYLBENZENE	-----	1000	M	8.07E-06	0.070718	0.070717756	1.25E-03	1.25E-04	1.25E-04	#VALUE!	0.0%	0.0%	B	None	
00076-13-1	TRICHLOROTRIFLUOROETHANE, 1,1,2-	960000	180000	L	3.79E-06	0.03319	0.033189622	5.85E-04	5.85E-05	5.85E-05	0.0%	0.0%	0.0%	C	None	
00076-14-2	DICHLOROTETRAFLUORETHANE	-----	17000	O	3.47E-06	0.03037	0.030369588	5.35E-04	5.35E-05	5.35E-05	#VALUE!	0.0%	0.0%	B	None	
00142-82-5	HEPTANE, N-	210000	3900	M	2.03E-06	0.017788	0.017787902	3.13E-04	3.13E-05	3.13E-05	0.0%	0.0%	0.0%	B	None	
00087-68-3	HEXACHLOROBUTADIENE	-----	0.045	M	5.27E-06	0.046205	0.04620516	8.14E-04	8.14E-05	8.14E-05	#VALUE!	0.2%	0.2%	B	None	
00067-63-0	ISOPROPYL ALCOHOL	98000	7000	M	0.000571	5.000136	5.000135818	8.81E-02	8.81E-03	8.81E-03	0.0%	0.0%	0.0%	B	None	
01634-04-4	METHYL TERT-BUTYL ETHER	-----	3.8	M	1.79E-06	0.01564	0.015640338	2.75E-04	2.75E-05	2.75E-05	#VALUE!	0.0%	0.0%	B	None	
00075-09-2	DICHLOROMETHANE	14000	46	M	1.16E-05	0.101304	0.10130427	1.78E-03	1.78E-04	1.78E-04	0.0%	0.0%	0.0%	B	None	
00110-54-3	HEXANE	-----	700	M	6.88E-05	0.603053	0.603053257	1.06E-02	1.06E-03	1.06E-03	#VALUE!	0.0%	0.0%	B	None	
00091-20-3	NAPHTHALENE	7900	3	M	2.6E-06	0.022777	0.022777191	4.01E-04	4.01E-05	4.01E-05	0.0%	0.0%	0.0%	B	None	
00095-47-6	XYLENE, ORTHO-	22000	100	M	1.13E-05	0.099243	0.099243477	1.75E-03	1.75E-04	1.75E-04	0.0%	0.0%	0.0%	B	None	
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	
00100-42-5	STYRENE	17000	1000	M	2.11E-06	0.018482	0.018482064	3.26E-04	3.26E-05	3.26E-05	0.0%	0.0%	0.0%	B	None	
00075-65-0	BUTYL ALCOHOL, TERT-	-----	720	O	3.76E-06	0.032973	0.032972696	5.81E-04	5.81E-05	5.81E-05	#VALUE!	0.0%	0.0%	B	None	
00127-18-4	TETRACHLOROETHYLENE	300	3.8	H	4.18E-06	0.03666	0.036660432	6.46E-04	6.46E-05	6.46E-05	0.0%	0.0%	0.0%	A	None	
00109-99-9	TETRAHYDROFURAN	30000	350	M	5.77E-06	0.050544	0.050543672	8.90E-04	8.90E-05	8.90E-05	0.0%	0.0%	0.0%	B	None	
00108-88-3	TOLUENE	37000	5000	L	3.42E-06	0.029936	0.029935737	5.27E-04	5.27E-05	5.27E-05	0.0%	0.0%	0.0%	C	None	
00156-60-5	DICHLOROETHYLENE, TRANS-	-----	63	M	1.96E-06	0.017202	0.017202203	3.03E-04	3.03E-05	3.03E-05	#VALUE!	0.0%	0.0%	B	None	
10061-02-6	TRANS-1,3-DICHLORO PROPENE	-	0.1	-	2.25E-06	0.019697	0.019696847	3.47E-04	3.47E-05	3.47E-05	#VALUE!	0.0%	0.0%	B	None	
00079																