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October 14, 2024

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 3nd 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 third quarter of 2024 included the following activities as described in this letter report:

- One quarterly groundwater sampling event (August 16, 2024); and
- One quarterly detailed routine inspection (August 15, 2024) of the operating SSDS/SVES.

The next quarterly inspection of the SSDS and SVES and groundwater monitoring will be performed in the fourth quarter of 2024, which will be documented in the Quarterly Report for the fourth quarter of 2024**.**

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 Regenesis® 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 third 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 August 16, 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 wells MW-3 and MW-2 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 were measured at each of the groundwater monitoring wells 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 for analysis of VOCs by EPA Method 8260D and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Oil Range Organics (ORO) with Category B deliverables. A trip blank sample and blind duplicate sample were also sent with the samples for VOC analysis.

Results

The petroleum-related VOCs, benzene, was detected in groundwater samples MW-01 and MW-02 (plus the blind duplicate sample). Benzene was detected at concentration that exceeded the AWQSGV limitation of 1 micrograms per liter (µg/L), in monitoring well MW-02 (and in the blind duplicate) at a concentration of 2.0 µg/L). TPH DRO was detected in MW-01 and MW-02 at concentrations of 5.01 µg/L and 27.7 µg/L, respectively, and TPH ORO was detected in all three wells at concentrations between 70.7 µg/L (MW-03) and 303 µg/L (MW-02). A summary of the third quarter 2024 groundwater sample results is provided in Table 1 with concentrations over time provided in Table 2. A figure showing the third quarter 2024

sampling results exceeding the AWQSGVs is provided as 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 third quarter of 2024 (on August 15, 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 1.38 to 1.78 inches of water (in H_2O) as summarized in Table I. The applied vacuum in SSDS points (SSDS-N1 through SSDS-N16) ranged from 2.1 to 2.5 in H_2O, and the air flow rate ranged from 0.1 to 40 cubic feet per minute (CFM). The air flow rates in three points (SSDS-N3, SSDS-N4, and SSDS-N9) were below the expected range. The system will be rebalanced next quarter to achieve more even flow rates for these legs of the system.

Table I
SSDS Monitoring Point Vacuum Readings – August 2024

Monitoring Point	Vacuum (in. H_2O)
MP-1	1.62
MP-2	temporarily inaccessible
MP-3	1.78
MP-4	1.52
MP-5	temporarily inaccessible
MP-6	1.62
MP-7	1.51
MP-8	temporarily inaccessible
MP-9	1.38
MP-10	1.62
MP-11	1.56
MP-12	1.62
MP-13	1.70
MP-14	1.63

SVES Inspection

The summary of the inspection conducted in the third quarter of 2024 (on August 15, 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 induced vacuum levels at the SVE monitoring points (SVMP-01 through SVMP-06) ranged from 1.53 to 1.69 in H_2O as summarized in Table II, and the well air flow rates for SVE-01 through SVE-05 ranged from 7 to 50 CFM.

Table II
SVE Monitoring Point Vacuum Readings – August 2024

Monitoring Point	Vacuum (in. H_2O)
SVMP-1	1.53
SVMP-2	1.63
SVMP-3	1.69
SVMP-4	1.68
SVMP-5	1.69
SVMP-6	1.55

Conclusions

Groundwater Monitoring

The groundwater monitoring and sampling results indicated that while benzene is still present in groundwater slightly above the AWQSGV in the southwestern portion of the Site (MW-02), there has been a significant reduction of petroleum VOCs in groundwater following remediation at the Site. 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.

SSDS Inspection

The vacuum and flow rate readings collected at the SSDS the monitoring points and manifolds generally indicated that the system is operating properly at the Site. The flow rate in three of the system legs was low, and the system will be rebalanced next quarter in order to achieve more even flow across all riser legs. Notwithstanding, the induced vacuum at all of the SSDS monitoring points (1.38 to 1.78 in H_2O) were several orders of magnitude higher than the minimum criteria outlined in the SMP (0.004 in H_2O), and therefore, the overall system is inducing sufficient vacuum beneath the building slab.

SVES Inspection

The post-blower pressure slightly exceeded the expected level. The applied and induced vacuums and flow rate readings collected at the SVES the monitoring points and manifold indicated that the overall system is operating properly at the Site.

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 is scheduled to be performed during the fourth quarter of 2024 (November 2024). Based upon the post-remediation groundwater monitoring data continuing to show significant reductions in contaminant concentrations, we respectfully request that NYSDEC approve a reduction in the required groundwater requirements as outlined in the SMP. Specifically, we request that the groundwater monitoring be reduced to semi-annually (next event being in November 2024), with the requirement for continued groundwater monitoring be reevaluated at that time. Any changes to the groundwater monitoring requirements approved by NYSDEC would be reflected in an updated SMP.

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 – August 2024
	Table II	SVE Monitoring Point Vacuum Readings – August 2024
Attachments:		
	Table 1	Post-Remedial Groundwater Concentrations – August 2024
	Table 2	Post-Remedial Groundwater 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 Above AWQSGVs – August 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

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

AKRF Sample ID		MW-01_20240816	MW-02_20240816	MW-0X_20240816	MW-03_20240816	FB-01_20240816	TB-01_20240816
Laboratory Sample ID		L2446856-01	L2446856-02	L2446856-04	L2446856-03	L2446856-05	L2446856-06
Date Sampled		8/16/2024	8/16/2024	8/16/2024	8/16/2024	8/16/2024	8/16/2024
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor		1	1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5	2.5 U	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	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	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	2.5 U
1,1-Dichloroethene	5	0.5 U	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	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	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	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	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	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	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	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	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	0.5 U
1,2-Dichloropropane	1	1 U	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	2.5 U
1,3-Dichlorobenzene	3	NR	NR	NR	NR	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	2.5 U
1,4-Dichlorobenzene	3	2.5 U	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 U
2,2-Dichloropropane	5	2.5 U	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	2.5 U
2-Hexanone	50	5 U	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	2.5 U
4-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	50	5 U	5 U	5 U	5 U	1.5 J	5 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	**1**	1	**2**	**2**	0.5 U	0.5 U	0.5 U
Bromobenzene	5	2.5 U	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	2.5 U
Bromodichloromethane	50	0.5 U	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	2 U
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	1.4 J	5 U	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	0.5 U
Chlorobenzene	5	2.5 U	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	2.5 U
Chloroform	7	2.5 U	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	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U	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	0.5 U
Cymene	5	2.5 U	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	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	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	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	2.5 U	2.5 U	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	2.5 U
M,P-Xylenes	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	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	5 U
Methylene Chloride	5	2.5 U	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	2.5 U
N-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	2.5 U	2.5 U	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	2.5 U
Styrene	5	2.5 U	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	2.5 U
Tert-Butyl Methyl Ether	10	2.5 U	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	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	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	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	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	2.5 U
Trichloroethylene (TCE)	5	0.5 U	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	2.5 U
Vinyl Acetate	NS	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total Petroleum Hydrocarbons (TPH)							
TPH - Diesel Range Organics (C10 - C28)	NS	115	303	237	70.7	NR	NR
TPH - Oil Range Organics	NS	5.01	27.7	7.41 J	2.66 U	NR	NR

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

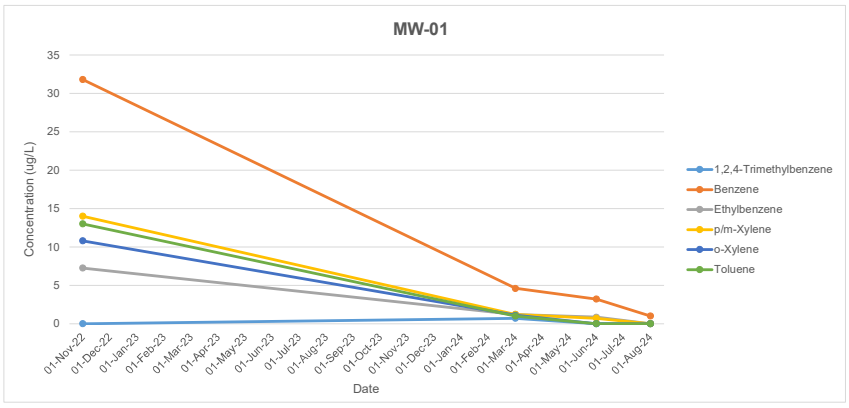


Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

	AKRF Sample ID	MW-02_20221201	MW-02_20240304	MW-0X_20240304	MW-2_20240612	MW-02_20240816	MW-0X_20240816
	Laboratory Sample ID	22L0110-02	L2411621-02	L2411621-04	L2433259-01	L2446856-02	L2446856-04
	Date Sampled	12/01/2022	3/04/2024	3/04/2024	6/12/2024	8/16/2024	8/16/2024
	Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	Dilution Factor	1	1	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.2 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	0.2 U	NR	NR	NR	NR	NR
1,1,2-Trichloroethane	1	0.2 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	NR	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	**5**	0.37 J	1.3 J	1.2 J	0.84 J	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.2 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	NR	NR	NR	NR	NR	NR
1,3-Dichloropropane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	NR	2 U	2 U	2 U	2 U	2 U
2,2-Dichloropropane	5	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	0.2 U	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	NR	2 U	2 U	2 U	2 U	2 U
Acetone	50	1 UJ	5 U	5 U	5 U	5 U	5 U
Acrolein	5	0.2 UJ	NR	NR	NR	NR	NR
Acrylonitrile	5	0.2 U	5 U	5 U	5 U	5 U	5 U
Benzene	**1**	0.93	**4.3**	**4**	**3.2**	**2**	**2**
Bromobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	0.2 U	2 UJ	2 UJ	2 UJ	2 U	2 U
Bromomethane	5	0.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	0.29 J	1.5 J	1.2 J	5 U	5 U	5 U
Carbon Tetrachloride	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	0.2 U	NR	NR	NR	NR	NR
Cymene	5	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.2 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dibromomethane	5	0.2 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	1.16	5 U	5 U	5 U	5 U	5 U
Dichloroethylenes	NS	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	**5**	0.37 J	1.2 J	1.1 J	0.8 J	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	**5**	0.55 J	1.1 J	1 J	0.76 J	2.5 U	2.5 U
Methyl Acetate	NS	0.2 U	NR	NR	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	0.29 J	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	0.2 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	0.2 U	NR	NR	NR	NR	NR
Methylene Chloride	5	1 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	0.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	**5**	0.49 J	1.3 J	1.2 J	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	0.5 U	NR	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	**5**	0.84	0.89 J	0.82 J	0.85 J	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Trans-1,2-Dichloroethene	5	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Trans-1,4-Dichloro-2-Butene	5	NR	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	0.41 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	NR	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	0.2 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	1.04 J	2.4 J	2.2 J	0.76 J	2.5 U	2.5 U
Total Petroleum Hydrocarbons (TPH)							
TPH - Diesel Range Organics (C10 - C28)	NS	NT	429	469	288	303	237
TPH - Oil Range Organics	NS	NT	26.6	23.7	18.5	27.7	7.41 J

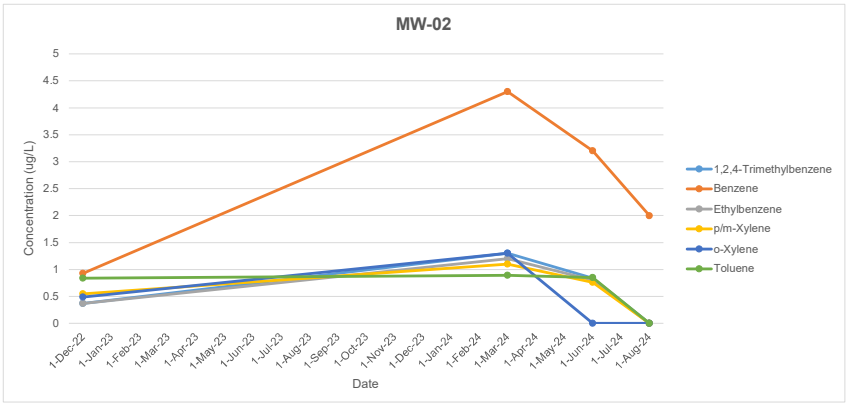
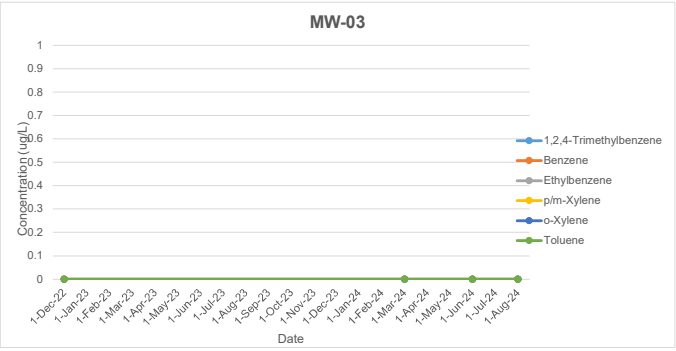


Table 2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations Over Time
VOCs and TPH

	AKRF Sample ID	MW-03_20221201	MW-03_20240304	MW-3_20240612	MW-03_20240816
	Laboratory Sample ID	22L0110-01	L2411621-03	L2433259-06	L2446856-03
	Date Sampled	12/01/2022	3/04/2024	6/12/2024	8/16/2024
	Unit	µg/L	µg/L	µg/L	µg/L
	Dilution Factor	1	1	1	1
Compound	**AWQSGV**	CONC Q	CONC Q	CONC Q	CONC Q
Volatile Organic Compounds (VOCs)					
1,1,1,2-Tetrachloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.2 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	0.2 U	NR	NR	NR
1,1,2-Trichloroethane	1	0.2 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.2 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	0.2 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	0.2 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	NR	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	NR	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	**5**	0.2 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	NR	2.5 UJ	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	2 U	2 U	2 U
1,2-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.2 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.2 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.2 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	NR	NR	NR	NR
1,3-Dichloropropane	5	0.2 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	NR	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	NR	2 U	2 U	2 U
2,2-Dichloropropane	5	0.2 UJ	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	0.2 U	5 U	5 U	5 U
4-Chlorotoluene	5	0.2 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	NR	2 U	2 U	2 U
Acetone	50	1 UJ	5 U	10	5 U
Acrolein	5	0.2 UJ	NR	NR	NR
Acrylonitrile	5	0.2 U	5 U	5 U	5 U
Benzene	**1**	0.2 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.2 U	0.5 U	0.5 U	0.5 U
Bromoform	50	0.2 U	2 UJ	2 UJ	2 U
Bromomethane	5	0.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	0.2 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.2 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	0.2 U	2.5 U	2.5 U	2.5 U
Chloroform	7	0.2 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	0.2 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	0.2 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	0.2 U	NR	NR	NR
Cymene	5	NR	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.2 U	0.5 UJ	0.5 U	0.5 U
Dibromomethane	5	0.2 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	0.2 U	5 U	5 U	5 U
Dichloroethylenes	NS	NR	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NR	2.5 U	2.5 U	2.5 U
Ethylbenzene	**5**	0.2 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	0.2 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	**5**	0.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	NS	0.2 U	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	0.2 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	0.2 U	5 U	5 U	5 U
Methylcyclohexane	NS	0.2 U	NR	NR	NR
Methylene Chloride	5	1 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	0.2 UJ	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	**5**	0.2 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
Styrene	5	0.2 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	0.2 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	0.98 U	NR	NR	NR
Tert-Butyl Methyl Ether	10	0.2 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.2 U	0.5 U	0.5 U	0.5 U
Toluene	**5**	0.2 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	0.5 U	0.5 U	0.5 UJ
Trans-1,2-Dichloroethene	5	0.2 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.2 U	0.5 U	0.5 U	0.5 UJ
Trans-1,4-Dichloro-2-Butene	5	NR	2.5 UJ	2.5 U	2.5 U
Trichloroethylene (TCE)	5	0.2 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	0.2 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	NR	5 U	5 U	5 U
Vinyl Chloride	2	0.2 U	1 U	1 U	1 U
Xylenes, Total	NS	0.6 U	2.5 U	2.5 U	2.5 U
Total Petroleum Hydrocarbons (TPH)					
TPH - Diesel Range Organics (C10 - C28)	NS	75.8	116	288	70.7
TPH - Oil Range Organics	NS	2.8 U	23.5	18.5	2.66 U



Tables 1-2
Newtown Creek Bud Site – North Block
2-21 Malt Drive, Long Island City, NY
Post-Remedial Groundwater Concentrations
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.

J : The concentration given is an estimated value.

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

STANDARDS

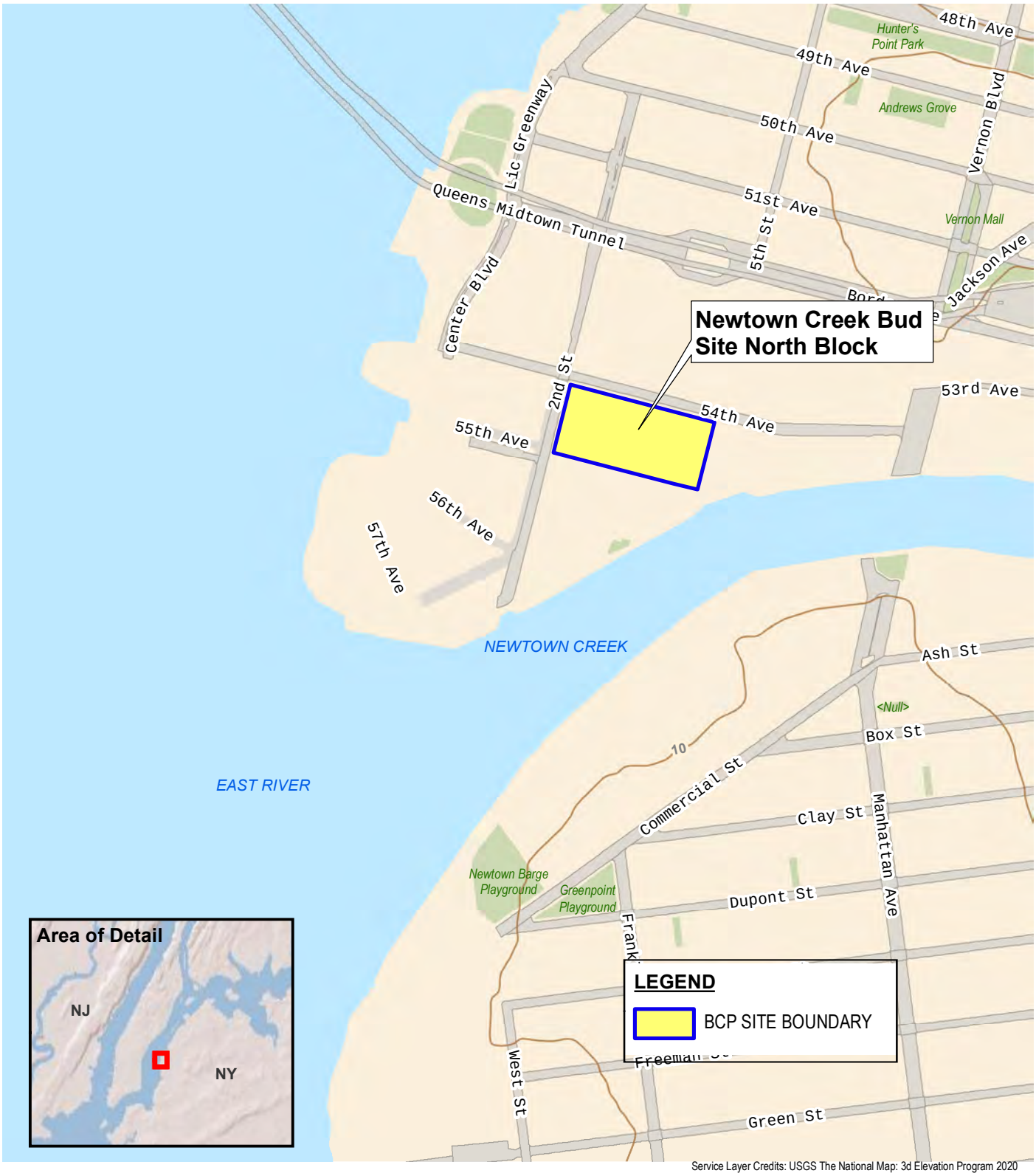
NYSDEC Class GA AWQSGVs : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs 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

FIGURES



AKRF

440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block

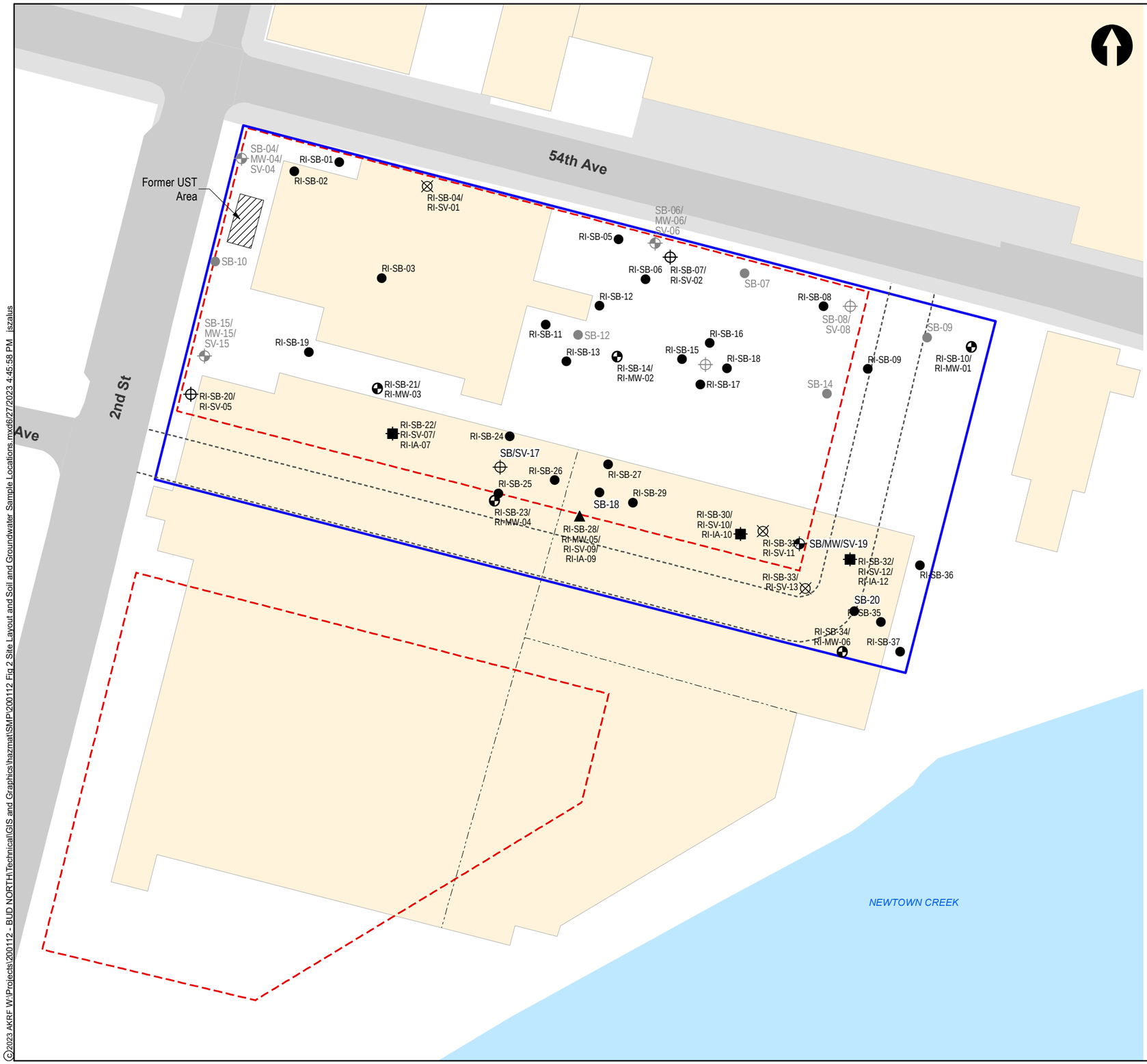
2-10 54th Avenue - Long Island City, New York

BCP SITE LOCATION

DATE
11/29/2021

PROJECT NO.
200112

FIGURE
1



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

0 25 50 75 100 125

SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

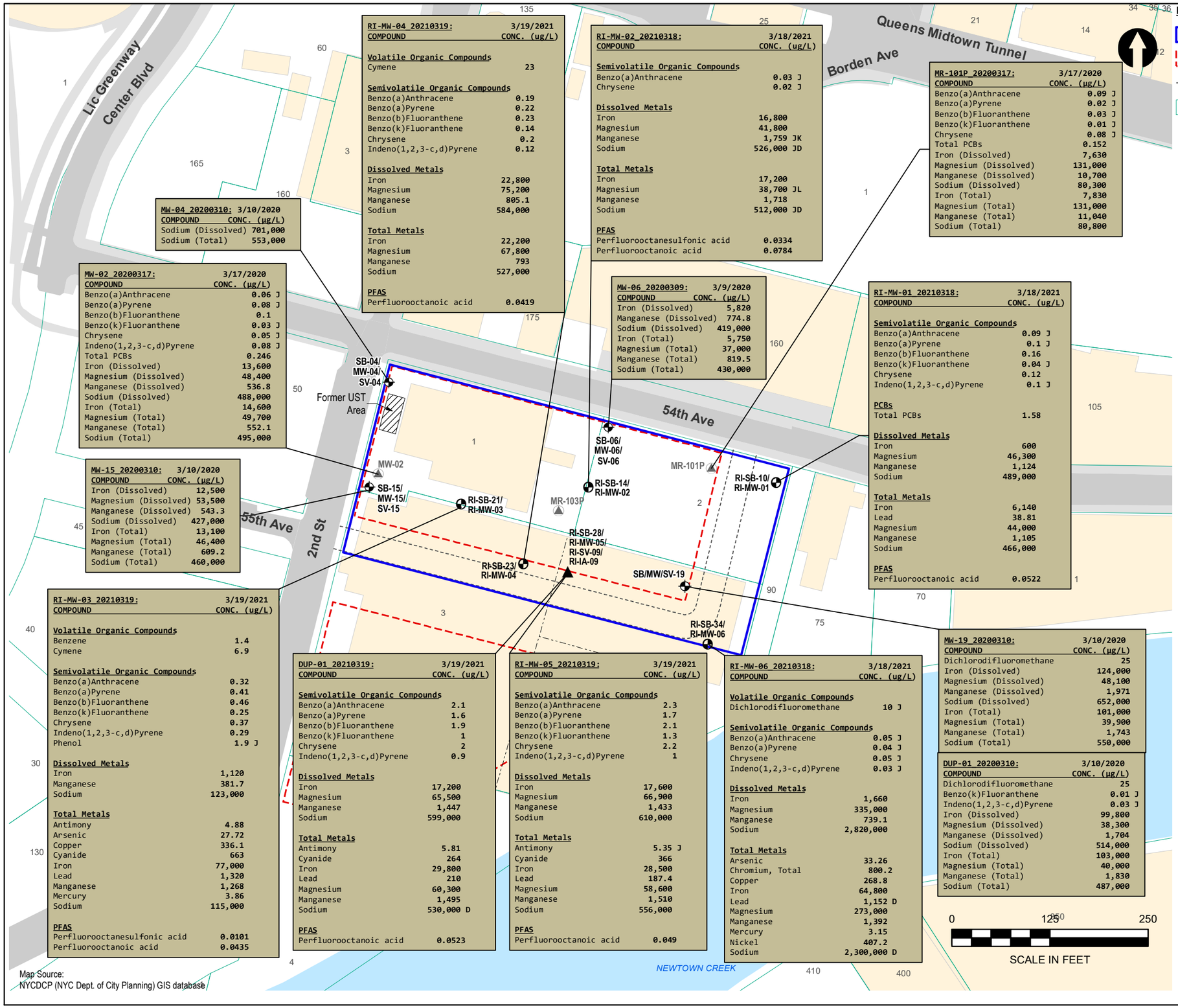
Newtown Creek Bud Site - North Block
2-21 Malt Drive - Long Island City, New York

SITE LAYOUT AND SOIL AND GROUNDWATER SAMPLE LOCATIONS

DATE
6/27/2023

PROJECT NO.
200112

FIGURE
2



RI-MW-04 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Cymene	23
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.19
Benzo(a)Pyrene	0.22
Benzo(b)Fluoranthene	0.23
Benzo(k)Fluoranthene	0.14
Chrysene	0.2
Indeno(1,2,3-c,d)Pyrene	0.12
Dissolved Metals	
Iron	22,800
Magnesium	75,200
Manganese	805.1
Sodium	584,000
Total Metals	
Iron	22,200
Magnesium	67,800
Manganese	793
Sodium	527,000
PFAS	
Perfluorooctanoic acid	0.0419

RI-MW-02 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.03 J
Chrysene	0.02 J
Dissolved Metals	
Iron	16,800
Magnesium	41,800
Manganese	1,759 JK
Sodium	526,000 JD
Total Metals	
Iron	17,200
Magnesium	38,700 JL
Manganese	1,718
Sodium	512,000 JD
PFAS	
Perfluorooctanesulfonic acid	0.0334
Perfluorooctanoic acid	0.0784

MR-101P 20200317: 3/17/2020

COMPOUND	CONC. (ug/L)
Benzo(a)Anthracene	0.09 J
Benzo(a)Pyrene	0.02 J
Benzo(b)Fluoranthene	0.03 J
Benzo(k)Fluoranthene	0.01 J
Chrysene	0.08 J
Total PCBs	0.152
Iron (Dissolved)	7,630
Magnesium (Dissolved)	131,000
Manganese (Dissolved)	10,700
Sodium (Dissolved)	80,300
Iron (Total)	7,830
Magnesium (Total)	131,000
Manganese (Total)	11,040
Sodium (Total)	80,800

MW-04 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Sodium (Dissolved)	701,000
Sodium (Total)	553,000

MW-06 20200309: 3/9/2020

COMPOUND	CONC. (µg/L)
Iron (Dissolved)	5,820
Manganese (Dissolved)	774.8
Sodium (Dissolved)	419,000
Iron (Total)	5,750
Magnesium (Total)	37,000
Manganese (Total)	819.5
Sodium (Total)	430,000

RI-MW-01 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.09 J
Benzo(a)Pyrene	0.1 J
Benzo(b)Fluoranthene	0.16
Benzo(k)Fluoranthene	0.04 J
Chrysene	0.12
Indeno(1,2,3-c,d)Pyrene	0.1 J
PCBs	
Total PCBs	1.58
Dissolved Metals	
Iron	600
Magnesium	46,300
Manganese	1,124
Sodium	489,000
Total Metals	
Iron	6,140
Lead	38.81
Magnesium	44,000
Manganese	1,105
Sodium	466,000
PFAS	
Perfluorooctanoic acid	0.0522

MW-02 20200317: 3/17/2020

COMPOUND	CONC. (µg/L)
Benzo(a)Anthracene	0.06 J
Benzo(a)Pyrene	0.08 J
Benzo(b)Fluoranthene	0.1
Benzo(k)Fluoranthene	0.03 J
Chrysene	0.05 J
Indeno(1,2,3-c,d)Pyrene	0.08 J
Total PCBs	0.246
Iron (Dissolved)	13,600
Magnesium (Dissolved)	48,400
Manganese (Dissolved)	536.8
Sodium (Dissolved)	488,000
Iron (Total)	14,600
Magnesium (Total)	49,700
Manganese (Total)	552.1
Sodium (Total)	495,000

MW-15 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Iron (Dissolved)	12,500
Magnesium (Dissolved)	53,500
Manganese (Dissolved)	543.3
Sodium (Dissolved)	427,000
Iron (Total)	13,100
Magnesium (Total)	46,400
Manganese (Total)	609.2
Sodium (Total)	460,000

RI-MW-03 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Benzene	1.4
Cymene	6.9
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.32
Benzo(a)Pyrene	0.41
Benzo(b)Fluoranthene	0.46
Benzo(k)Fluoranthene	0.25
Chrysene	0.37
Indeno(1,2,3-c,d)Pyrene	0.29
Phenol	1.9 J
Dissolved Metals	
Iron	1,120
Manganese	381.7
Sodium	123,000
Total Metals	
Antimony	4.88
Arsenic	27.72
Copper	336.1
Cyanide	663
Iron	77,000
Lead	1,320
Manganese	1,268
Mercury	3.86
Sodium	115,000
PFAS	
Perfluorooctanesulfonic acid	0.0101
Perfluorooctanoic acid	0.0435

DUP-01 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	2.1
Benzo(a)Pyrene	1.6
Benzo(b)Fluoranthene	1.9
Benzo(k)Fluoranthene	1
Chrysene	2
Indeno(1,2,3-c,d)Pyrene	0.9
Dissolved Metals	
Iron	17,200
Magnesium	65,500
Manganese	1,447
Sodium	599,000
Total Metals	
Antimony	5.81
Cyanide	264
Iron	29,800
Lead	210
Magnesium	60,300
Manganese	1,495
Sodium	530,000 D
PFAS	
Perfluorooctanoic acid	0.0523

RI-MW-05 20210319: 3/19/2021

COMPOUND	CONC. (ug/L)
Semivolatile Organic Compounds	
Benzo(a)Anthracene	2.3
Benzo(a)Pyrene	1.7
Benzo(b)Fluoranthene	2.1
Benzo(k)Fluoranthene	1.3
Chrysene	2.2
Indeno(1,2,3-c,d)Pyrene	1
Dissolved Metals	
Iron	17,600
Magnesium	66,900
Manganese	1,433
Sodium	610,000
Total Metals	
Antimony	5.35 J
Cyanide	366
Iron	28,500
Lead	187.4
Magnesium	58,600
Manganese	1,510
Sodium	556,000
PFAS	
Perfluorooctanoic acid	0.049

RI-MW-06 20210318: 3/18/2021

COMPOUND	CONC. (ug/L)
Volatile Organic Compounds	
Dichlorodifluoromethane	10 J
Semivolatile Organic Compounds	
Benzo(a)Anthracene	0.05 J
Benzo(a)Pyrene	0.04 J
Chrysene	0.05 J
Indeno(1,2,3-c,d)Pyrene	0.03 J
Dissolved Metals	
Iron	1,660
Magnesium	335,000
Manganese	739.1
Sodium	2,820,000
Total Metals	
Arsenic	33.26
Chromium, Total	800.2
Copper	268.8
Iron	64,800
Lead	1,152 D
Magnesium	273,000
Manganese	1,392
Mercury	3.15
Nickel	407.2
Sodium	2,300,000 D

MW-19 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Dichlorodifluoromethane	25
Iron (Dissolved)	124,000
Magnesium (Dissolved)	48,100
Manganese (Dissolved)	1,971
Sodium (Dissolved)	652,000
Iron (Total)	101,000
Magnesium (Total)	39,900
Manganese (Total)	1,743
Sodium (Total)	550,000

DUP-01 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Dichlorodifluoromethane	25
Benzo(k)Fluoranthene	0.01 J
Indeno(1,2,3-c,d)Pyrene	0.03 J
Iron (Dissolved)	99,800
Magnesium (Dissolved)	38,300
Manganese (Dissolved)	1,704
Sodium (Dissolved)	514,000
Iron (Total)	103,000
Magnesium (Total)	40,000
Manganese (Total)	1,830
Sodium (Total)	487,000

Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF PROPOSED ROAD
- LOT BOUNDARY
- EXISTING MONITORING WELL LOCATION
- SOIL BORING/GROUNDWATER/SOIL VAPOR WITHIN PLANNED BUILDING FOOTPRINT
- RI SOIL BORING/MONITORING WELL
- RI SOIL BORING/MONITORING WELL/SOIL VAPOR POINT/INDOOR AIR SAMPLE LOCATION

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs) and/or Screening Levels:

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

µg/L: micrograms per Liter = parts per billion (ppb)

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.
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.
K: Reported concentration value is proportional to dilution factor and may be exaggerated
L: Sample result is estimated and biased low.

DUP-01_20210319 is a blind duplicate of sample RI-MW-05_20210319

	NYSDEC AWQSGVs ug/l	NYSDEC PFAS Screening Levels ug/l
Volatile Organic Compounds		
Benzene	1	
Cymene	5	
Dichlorodifluoromethane	5	
Semivolatile Organic Compounds		
Benzo(a)Anthracene	0.002	
Benzo(a)Pyrene	0	
Benzo(b)Fluoranthene	0.002	
Benzo(k)Fluoranthene	0.002	
Chrysene	0.002	
Indeno(1,2,3-c,d)Pyrene	0.002	
Phenol	1	
PCBs		
Total PCBs	0.09	
Metals		
Antimony	3	
Arsenic	25	
Chromium, Total	50	
Copper	200	
Cyanide	200	
Iron	300	
Lead	25	
Magnesium	35,000	
Manganese	300	
Mercury	0.7	
Nickel	100	
Sodium	20,000	
PFAS		
Perfluorooctanesulfonic acid		0.01
Perfluorooctanoic acid		0.01

Sample ID — Sample Date

MW-04 20200310: 3/10/2020

COMPOUND	CONC. (µg/L)
Sodium (Dissolved)	701,000
Sodium (Total)	553,000

Analyte/Compound — Concentration

AKRF
440 Park Avenue South, New York, NY 10016

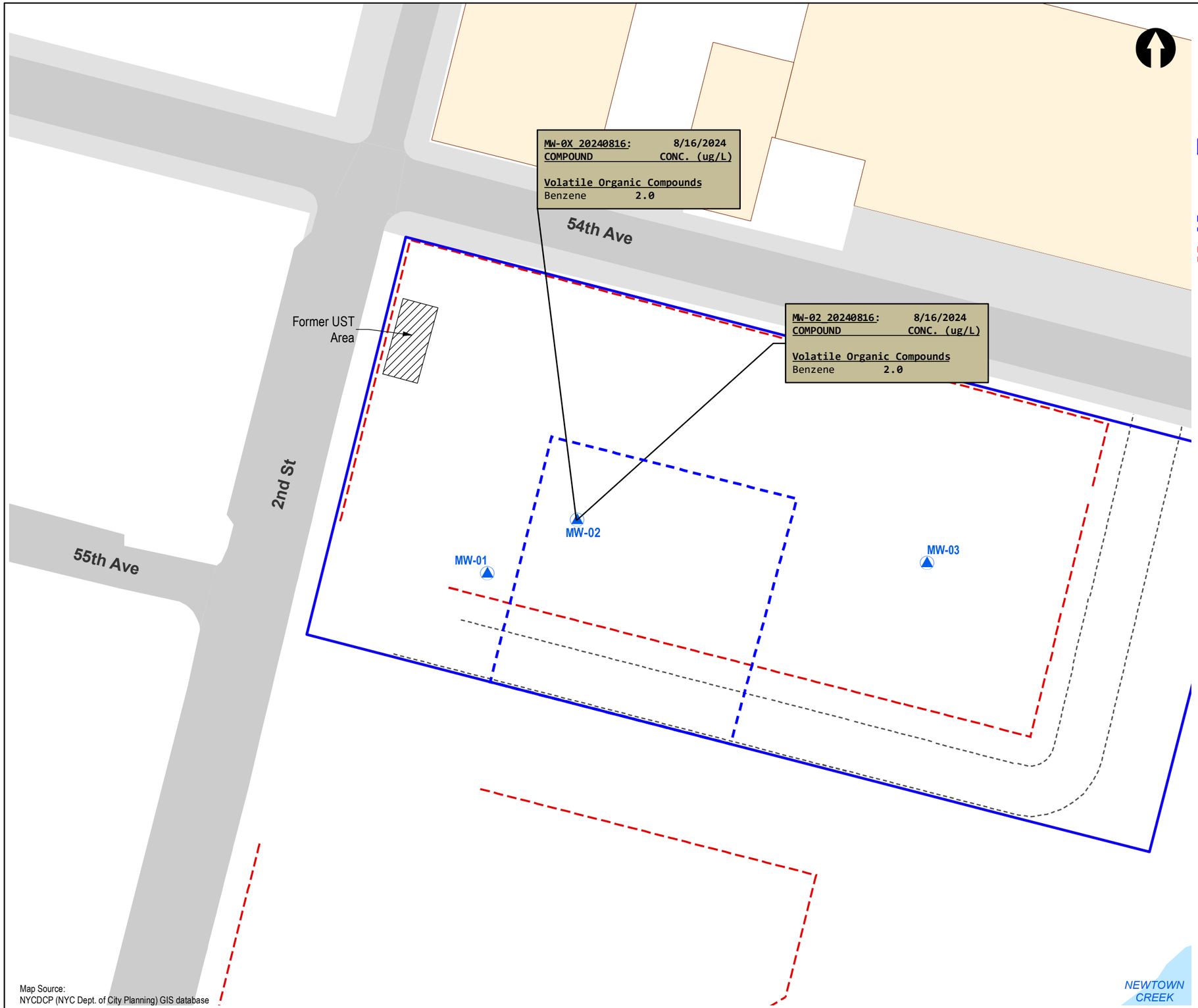
Newtown Creek Bud Site - North Block
2-10 54th Avenue - Long Island City, New York

RI Groundwater Sample Concentrations Above AWQSGVs and Screening Levels

DATE
4/9/2024

PROJECT NO.
200112

FIGURE
3



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database

LEGEND

- BCP SITE BOUNDARY
- GROUNDWATER MONITORING WELL
- EXISTING BUILDING
- APPROXIMATE EXTENT OF GROUNDWATER TREATMENT AREA
- NEW BUILDING FOOTPRINT
- APPROXIMATE LOCATION OF NEW ROAD

NYSDEC TOGS Class GA Ambient Water Quality Standard and Guidance Values (AWQSGVs) and/or Screening Levels:

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

µg/L: micrograms per Liter = parts per billion (ppb)

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.
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.

DUP-01_20221128 is a blind duplicate of sample MW-01_20221128
MW-X_20240612 is a blind duplicate of sample MW-1_20240612

	NYSDEC AWQSGVs µg/l
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	5
Benzene	1
Ethylbenzene	5
O-Xylene (1,2-Dimethylbenzene)	5
Toluene	5
Xylenes, M,P	5

0 60 120
SCALE IN FEET

Sample ID — Sample Date

MW-04 20200310: 3/10/2020
COMPOUND CONC. (µg/L)
Sodium (Dissolved) 701,000
Sodium (Total) 553,000

Analyte/Compound — Concentration

AKRF
440 Park Avenue South, New York, NY 10016

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

Post-Remediation Groundwater Sample Analytical Results Above AWQSGVs - August 2024

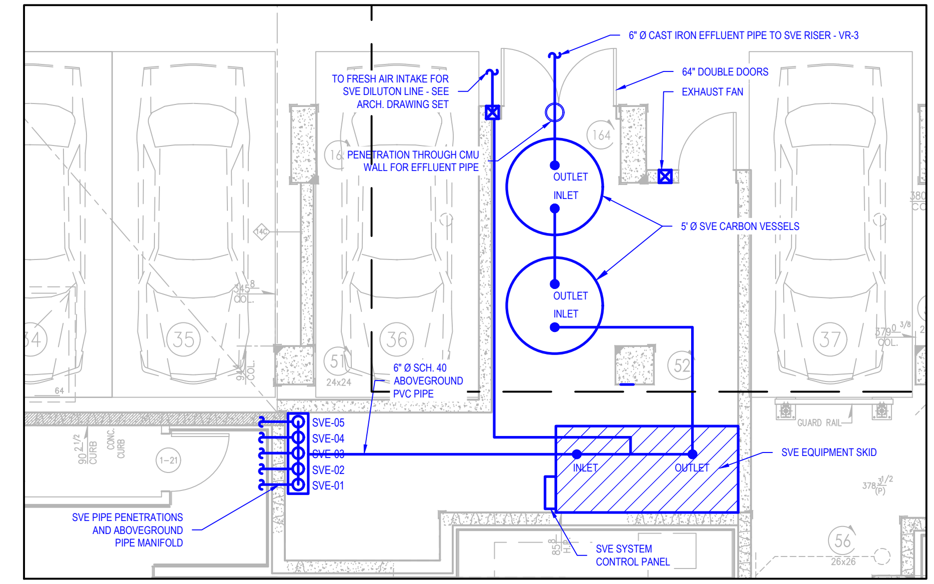
DATE
10/3/2024

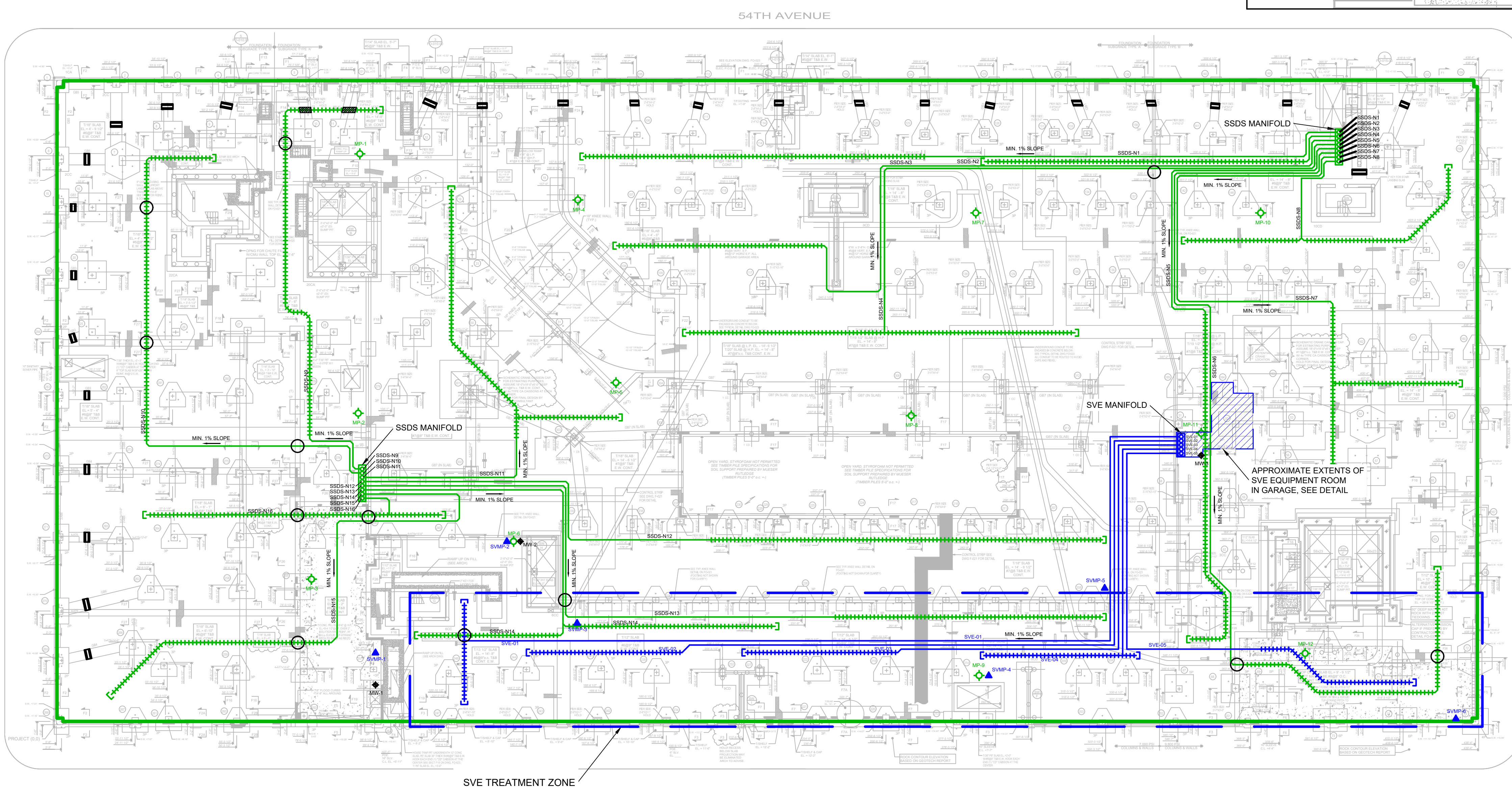
PROJECT NO.
200112

FIGURE
4

SVE EQUIPMENT ROOM LAYOUT

0 5 10 20
SCALE IN FEET





LEGEND

SSDS TREATMENT ZONE (EXTENT OF WATERPROOFING/ VAPOR BARRIER/GAS-PERMEABLE AGGREGATE	SVE 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
SVE TREATMENT ZONE	SSDS 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
SSDS COMMUNICATION SLEEVE THROUGH GRADE BEAM	SSDS/SVE 4" Ø SOLID SCHEDULE 40 PVC PIPE
SSDS PIPE SLEEVE THROUGH GRADE BEAM	SSDS PIPE ELEVATION CHANGE
	SSDS/SVE PIPING MANIFOLD

SVE-01/SSDS-N8	SSDS/SVE 4" Ø RISER SLAB PENETRATION
MP-1	SSDS VACUUM MONITORING POINT
SVMP-1	SVE VACUUM MONITORING POINT
MW-1	POST-REMEDIAL GROUNDWATER MONITORING WELL

0 20 40 80
SCALE IN FEET

NOTE: PIPE SPACING NOT TO SCALE

AKRF
440 Park Avenue South, New York, NY 10016

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

SVE, SSDS AND VAPOR BARRIER PLAN

DATE
7/6/2023
PROJECT NO.
200112
FIGURE
5

W:\Projects\200112 - BUD NORTH\Technical\Hazmat\RAWP\CAD\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

Page X of X

Groundwater Monitoring Well Sampling Log

Project Name:	BUD North	Client:		Well ID:	
Project Location:		Sampled By:	MB		MW-1
Project Number:	2001112	Sampling Date:	8/16/24		
Headspace PID:	0.4	Sampling Time:	1455		
Total Well Depth:	16.93 ft. below top of casing	Water Column:	8.58 feet		*= 0.041 * WC for 1" wells
Depth to Water:	8.42 ft. below top of casing	Well Volume*:	1.39 gallons		*= 0.163 * WC for 2" wells
Product Thickness:	NA ft. below top of casing	Volume Purged:	.4 gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	ft. below top of casing	Well Diameter:	2 inch		
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)
1420	8.78	50	19.87	1.84	1.10	6.12	-192	19.5	slight rotten egg-like odor
1425	9.23		19.92	1.84	.39	6.11	-225	16.7	
1430	9.72		19.88	1.85	.31	6.20	-252	6.8	
1435	10.25		19.74	1.86	.26	6.25	-275	4.3	
1440	10.31		19.63	1.87	.23	6.27	-291	6.4	
1445	10.47		19.49	1.89	.21	6.31	-297	8.7	
1450	10.61		19.55	1.86	.24	6.29	-301	7.3	
									* 6 inches between Top of riser & Top of case
	Sampling								
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	

MB

AKRF

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

Groundwater Monitoring Well Sampling Log

Project Name:	BUD North	Client:		Well ID: MW-2
Project Location:		Sampled By:	MB	
Project Number:	2001112	Sampling Date:	8/16/24	
Headspace PID:	1.6	Sampling Time:	1335	
Total Well Depth:	25.27 ft. below top of casing	Water Column:	11.99 feet	*= 0.041 * WC for 1" wells
Depth to Water:	13.28 ft. below top of casing	Well Volume*:	1.95 gallons	*= 0.163 * WC for 2" wells
Product Thickness:	NA ft. below top of casing	Volume Purged:	.4 gallons	*= 0.653 * WC for 4" wells
Depth to Top of Screen:	ft. below top of casing	Well Diameter:	2 inch	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:	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)
1300	13.54	50	19.32	3.03	.76	5.97	-392	16.1	slight rotten egg-like odor
1305	13.55		18.79	2.97	.46	5.95	-394	7.4	
1310	13.57		18.52	2.66	.29	5.92	-385	5.6	
1315	13.63		18.43	2.25	.23	5.90	-365	10.1	
1320	13.64		18.45	2.07	.20	5.96	-358	15.2	
1325	13.62		18.45	2.02	.19	5.98	-357	13.6	
1330	13.63		18.45	2.03	.22	5.98	-357	11.7	
									DUP taken
Sampling									
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	

MB

AKRF

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

Page X of X

Groundwater Monitoring Well Sampling Log

Project Name:	BUD North	Client:				Well ID: MW-3
Project Location:		Sampled By:	MB			
Project Number:	200112	Sampling Date:	8/16/24			
Headspace PID:	0.1	Sampling Time:	1215			
Total Well Depth:	~~19.90~~ ft. below top of casing	Water Column:	7.15	feet		*= 0.041 * WC for 1" wells
Depth to Water:	12.75 ft. below top of casing	Well Volume*:	1.17	gallons		*= 0.163 * WC for 2" wells
Product Thickness:	NA ft. below top of casing	Volume Purged:	.33	gallons		*= 0.653 * WC for 4" wells
Depth to Top of Screen:	ft. below top of casing	Well Diameter:	2	inch		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)
1145	13.76	50	20.25	3.23	1.98	5.91	-72	56.4	
1150	13.78	50	19.78	3.30	2.41	5.88	-87	65.5	
1155	13.80	50	19.61	3.33	2.63	5.89	-94	38.5	
1200	13.82	50	19.61	3.34	2.74	5.88	-98	36.9	
1205	13.83	50	19.51	3.36	2.81	5.87	-99	28.6	
1210	13.86	50	19.54	3.36	2.84	5.88	-100	24.9	
1215									MS/MSD Taken
1220									
	Sampling								
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	

ATTACMENT B
LABORATORY DATA REPORTS AND DUSRS

September 20, 2024

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2446856

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. L2446856 has been completed. The following samples were reported:

MW-01_20240816	MW-02_20240816
MW-03_20240816	MW-0X_20240816
FB-01_20240816	TB-01_20240816

Analyses were performed in accordance with USEPA Methods 8260D (Volatile Organics) and 8015D (Total Petroleum Hydrocarbons). 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.

Volatile Organics

- The result for bromomethane in all samples is qualified as estimated (UJ) due to unacceptable percent difference in the initial calibration verification (ICV) standard.
- The results for 1,4-dioxane and naphthalene in FB-01_20240816 and TB-01_20240816 and bromomethane and trans-1,3-dichloropropene in MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as estimated (J-,UJ) due to low response in the continuing calibration verification (CCV) standard.
- The result for acetone in MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as not detected (U) at the reporting limit due to field blank contamination. The result for naphthalene in MW-01_20240816, MW-02_20240816 and MW-0X_20240816 are qualified as estimated (J+) and may be biased high to due field blank contamination.
- The results for bromomethane in all samples are qualified as estimated (UJ) due to low recovery in the laboratory control sample (LCS) and LCS duplicate (LCSD) and/or high relative percent difference (RPD) in the LCS/LCSD.
- The result for bromomethane in MW-03_20240816 is qualified as estimated (UJ) due to low recovery in the matrix spike (MS) and/or MS duplicate (MSD).

Total Petroleum Hydrocarbons

- The result for TPH (C9-C44) in MW-03_20240816 is qualified as estimated (J-) due to low recovery of nonane, decane and hexatriacontane in the MSD and high MS/MSD RPD.
- Based on professional judgment, the result for TPH (C9-C44) in samples MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 is qualified as estimated (J-) and may be biased low due to inconsistencies in integration procedures.

- The results for TPH (C9-C44) and ORO (C28-C40) in MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as estimated (J, UJ) due to imprecision in field duplicate samples.

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:
  - Clean Canister Certification
  - 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.

Improper edits were observed on the chain of custody (COC). Edits should be made by drawing a single line through the entry error, dated and initialed by the person making the edit.

The electronic data deliverable (EDD) reports the petroleum hydrocarbon results differently than in the data package, as follows:

Analyte	Data Package	EDD
TPH	TPH (C9-C44)	DROD (C9-C40)
ORO	ORO (C28-C40)	C28-C40 PHC

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting a sample collection date of August 16, 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

Calibration

Two initial calibrations (ICs) were performed in support of the sample analyses. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients (r2) are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (≤30%D) with the exception of bromomethane (69.6%D). The result for bromomethane in all samples is qualified as estimated (UJ) due to unacceptable percent difference in the ICV.

Two CCVs were analyzed in support of sample analysis. All percent differences (%Ds) are acceptable (≤20%D) with the exceptions noted below.

Analyte	%D	Associated Sample	Qualifier Applied
GONZO CCV 08/21/24 06:30			
1,4-Dioxane	26.3	FB-01_20240816 TB-01_20240816	UJ
Naphthalene	30.4		
VOA122 CCV 08/21/24 18:03			
Bromomethane	45.2	MW-01_20240816 MW-02_20240816 MW-03_20240816 MW-0X_20240816	UJ
trans-1,3-Dichloropropene	21.5		

In all instances, the percent difference represents a decrease in instrument sensitivity. The results for 1,4-dioxane and naphthalene in FB-01_20240816 and TB-01_20240816 and bromomethane and trans-1,3-dichloropropene in MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as estimated (J-, UJ) due to low

response in the CCV.

Blanks

Acetone (1.5 µg/L) and naphthalene (1.1 µg/L) were detected in FB-01_20240816. The result for acetone in MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as not detected (U) at the reporting limit due to field blank contamination. The result for naphthalene in MW-01_20240816, MW-02_20240816 and MW-0X_20240816 are qualified as estimated (J+) and may be biased high to due field blank contamination.

Laboratory Control Sample (LCS) / LCS Duplicate (LCS)

One LCS/LCSD pair was analyzed in support of sample analysis. The LCS/LCSD is evaluated using control limit of 70-130%R, relative percent difference (RPD)≤20. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	LCS %R	LCSD %R	RPD	Associated Sample
LCS WG1962337-3 & 4				
Bromomethane	60	63	a	FB-01_20240816 TB-01_20240816
LCS WG1962545-3 & 4				
Bromomethane	54	57	21	MW-01_20240816 MW-02_20240816 MW-03_20240816 MW-0X_20240816

a=acceptable

The results for bromomethane in all samples are qualified as estimated (UJ) due to low recovery in the LCS and LCSD and/or high RPD in the LCS/LCSD.

Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-03_20240816. The MS/MSD is evaluated using control limit of 70-130%R, relative percent difference (RPD)≤30. All recoveries and RPDs are acceptable, with the following exceptions.

Analyte	MS %R	MSD %R	RPD
Bromomethane	20	31	43

The result for bromomethane in MW-03_20240816 is qualified as estimated (UJ) due to low recovery in the MS and/or MSD.

Field Duplicates

MW-0X_20240816 was submitted as a field duplicate of MW-02_20240816. Precision between paired samples is acceptable (RPD≤30) as presented below.

Analyte	MW-02_20240816 (µg/L)	MW-0X_20240816 (µg/L)	RPD
Benzene	2	2	0
Naphthalene	9.6	10	4.1

B. Total Petroleum Hydrocarbons

Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-03_20240816. The MS/MSD is 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
Nonane (C9)	22	a	89
Decane (C10)	34	a	68
Hexatriacontane (C36)	39	a	31

a=acceptable

The result for TPH in MW-03_20240816 is qualified as estimated (J-) due to low recovery of nonane, decane and hexatriacontane in the MSD and high MS/MSD RPD.

Quantitation

The laboratory reported TPH (C9-C44), DRO (C10-C28) and ORO (C28-C40). As such, the concentration of TPH (C9-C44), which has the largest carbon range, should be greater than the sum of DRO and ORO. However, this is not the case for samples MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816. The laboratory was contacted and replied: '*Each range is calculated by taking the area between the stated alkanes, subtracting the area of the same range found in its instrument blank, then using the resulting area to calculate the amount reported. Each sample uses one instrument blank for all of its ranges, and while the best instrument blank is used, there can be some error if the baseline doesn't exactly match the samples' baseline'.* Based on professional judgment, the result for TPH (C9-C44) in samples MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as estimated (J-) and may be biased low due to inconsistencies in

integration procedures. It is noted that TPH in sample MW-03_20240816 is reported as not detected (ND), but DRO is reported at a concentration of 70.7 ug/L. The validator replaced the ND result and entered 70.7 ug/L for TPH in the EDD.

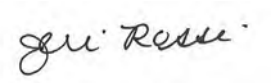
Field Duplicates

MW-0X_20240816 was submitted as a field duplicate of MW-02_20240816. Precision between paired samples is acceptable (RPD≤30) as presented below.

Analyte	MW-02_20240816 (µg/L)	MW-0X_20240816 (µg/L)	RPD
TPH (C9-C44)	306	209	28
DRO (C10-C28)	303	237	24
ORO (C28-C40)	27.7	7.41	116

The result for TPH (C9-C44) and ORO (C28-C40) in MW-01_20240816, MW-02_20240816, MW-03_20240816 and MW-0X_20240816 are qualified as estimated (J, UJ) due to imprecision in field duplicate samples.

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.

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)

L2446856 23AUG24
AKRF – M – 2

ALPHA

NEW YORK CHAIN OF CUSTODY

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 1

Date Rec'd in Lab 08/17/24

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

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:

Client Information
Client: AKRF
Address: 440 Park Ave S
Phone:
Fax:
Email: jhiggins@AKRF.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
AKRF EQuIS, CAT B, Close SDG

Please specify Metals or TAL.

ANALYSIS: Tot Dio/ 1,4-Dioxane EPA 8015D; VOC EPA 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Tot Dio/ 1,4-Dioxane EPA 8015D	VOC EPA 8260	Sample Specific Comments	Total Bottles
46856-01	MW-01_20240816	8/16/24	1455	GW	MB	X	X		5
-02	MW-02_20240816		1335			X	X		5
-03	MW-03_20240816		1215			X	X		15
-04	MW-0X_20240816		1200			X	X		5
-05	FB-01_20240816		1330			X	X		5
-06	TB-01_20240816		—	W			X		2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

	1,4-Dioxane	VOC
Container Type	Amb	Vial
Preservative	NA	HCL

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Bates	8/16/24 1514	WiFi (Pace)	8/16/24 1514
WiFi (Pace)	8/16/24 2030	Anthony Green	AUG 16 2024 2030
Anthony Green		Christina Pace	8/17/24 0100
Christina Pace	8/17/24 0520	Sylvia Stott	8/17/24

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)

03:20

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1962337-3	**Analysis Date** : 08/21/24 06:30	**File ID** : VG240821A01
LCSD Sample ID	: WG1962337-4	**Analysis Date** : 08/21/24 06:53	**File ID** : VG240821A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	11	110	10	11	110	0	70-130	20
Chloroform	10	10	100	10	11	110	10	70-130	20
Carbon tetrachloride	10	10	100	10	9.9	99	1	63-132	20
1,2-Dichloropropane	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	10	9.7	97	10	10	100	3	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	10	11	110	10	9.5	95	15	62-150	20
1,2-Dichloroethane	10	11	110	10	12	120	9	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	10	9.8	98	10	11	110	12	70-130	20
cis-1,3-Dichloropropene	10	9.8	98	10	10	100	2	70-130	20
1,1-Dichloropropene	10	11	110	10	10	100	10	70-130	20
Bromoform	10	8.8	88	10	9.5	95	8	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	11	110	10	11	110	0	70-130	20
Toluene	10	10	100	10	10	100	0	70-130	20
Ethylbenzene	10	10	100	10	10	100	0	70-130	20
Chloromethane	10	11	110	10	11	110	0	64-130	20
Bromomethane	10	6.0	60	10	6.3	63	5	39-139	20
Vinyl chloride	10	11	110	10	11	110	0	55-140	20
Chloroethane	10	13	130	10	14	140 Q	7	55-138	20
1,1-Dichloroethene	10	10	100	10	10	100	0	61-145	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1962545-3	**Analysis Date** : 08/21/24 18:03	**File ID** : V22240821A01
LCSD Sample ID	: WG1962545-4	**Analysis Date** : 08/21/24 18:28	**File ID** : V22240821A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	8.6	86	10	8.6	86	0	70-130	20
1,1-Dichloroethane	10	9.8	98	10	9.5	95	3	70-130	20
Chloroform	10	9.2	92	10	9.1	91	1	70-130	20
Carbon tetrachloride	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	10	9.1	91	10	9.5	95	4	70-130	20
Dibromochloromethane	10	8.4	84	10	8.5	85	1	63-130	20
1,1,2-Trichloroethane	10	8.3	83	10	8.7	87	5	70-130	20
Tetrachloroethene	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	10	9.4	94	10	9.3	93	1	75-130	20
Trichlorofluoromethane	10	10	100	10	10	100	0	62-150	20
1,2-Dichloroethane	10	9.4	94	10	9.6	96	2	70-130	20
1,1,1-Trichloroethane	10	10	100	10	9.8	98	2	67-130	20
Bromodichloromethane	10	9.1	91	10	9.3	93	2	67-130	20
trans-1,3-Dichloropropene	10	7.8	78	10	8.1	81	4	70-130	20
cis-1,3-Dichloropropene	10	9.4	94	10	9.6	96	2	70-130	20
1,1-Dichloropropene	10	9.5	95	10	9.7	97	2	70-130	20
Bromoform	10	8.6	86	10	9.0	90	5	54-136	20
1,1,2,2-Tetrachloroethane	10	8.1	81	10	8.7	87	7	67-130	20
Benzene	10	9.6	96	10	9.4	94	2	70-130	20
Toluene	10	9.3	93	10	9.2	92	1	70-130	20
Ethylbenzene	10	9.6	96	10	9.5	95	1	70-130	20
Chloromethane	10	8.9	89	10	8.5	85	5	64-130	20
Bromomethane	10	5.4	54	10	6.7	67	21 Q	39-139	20
Vinyl chloride	10	11	110	10	10	100	10	55-140	20
Chloroethane	10	9.0	90	10	6.4	64	34 Q	55-138	20
1,1-Dichloroethene	10	10	100	10	9.8	98	2	61-145	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Client Sample ID	: MW-03_20240816	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2446856-03	**Analysis Date**	: 08/21/24 20:59
Matrix Spike	: WG1962545-6	**MS Analysis Date**	: 08/22/24 04:10
Matrix Spike Dup	: WG1962545-7	**MSD Analysis Date**	: 08/22/24 04:35

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bromomethane	ND	10	2.0J	20 Q	10	3.1	31 Q	43 Q	39-139	20
Vinyl chloride	ND	10	10	100	10	10	100	0	55-140	20
Chloroethane	ND	10	8.1	81	10	10	100	21 Q	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	ND	10	9.7	97	10	9.4	94	3	70-130	20
Trichloroethene	ND	10	9.8	98	10	9.1	91	7	70-130	20
1,2-Dichlorobenzene	ND	10	9.7	97	10	9.4	94	3	70-130	20
1,3-Dichlorobenzene	ND	10	9.7	97	10	9.3	93	4	70-130	20
1,4-Dichlorobenzene	ND	10	9.5	95	10	9.1	91	4	70-130	20
Methyl tert butyl ether	ND	10	10	100	10	10	100	0	63-130	20
p/m-Xylene	ND	20	20	100	20	19	95	5	70-130	20
o-Xylene	ND	20	20	100	20	19	95	5	70-130	20
cis-1,2-Dichloroethene	ND	10	9.6	96	10	9.3	93	3	70-130	20
Dibromomethane	ND	10	9.7	97	10	9.4	94	3	70-130	20
1,2,3-Trichloropropane	ND	10	9.7	97	10	9.4	94	3	64-130	20
Acrylonitrile	ND	10	11	110	10	10	100	10	70-130	20
Styrene	ND	20	20	100	20	19	95	5	70-130	20
Dichlorodifluoromethane	ND	10	7.5	75	10	7.1	71	5	36-147	20
Acetone	1.8J	10	12	120	10	12	120	0	58-148	20
Carbon disulfide	ND	10	10	100	10	9.8	98	2	51-130	20
2-Butanone	ND	10	10	100	10	9.5	95	5	63-138	20
Vinyl acetate	ND	10	9.3	93	10	8.8	88	6	70-130	20

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2446856-05	**Date Collected**	: 08/16/24 13:30
Client ID	: FB-01_20240816	**Date Received**	: 08/16/24
Sample Location	: LONG ISLAND CITY, NY	**Date Analyzed**	: 08/21/24 10:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: VG240821A12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	1.5	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2446856-05	**Date Collected**	: 08/16/24 13:30
Client ID	: FB-01_20240816	**Date Received**	: 08/16/24
Sample Location	: LONG ISLAND CITY, NY	**Date Analyzed**	: 08/21/24 10:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: VG240821A12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	1.1	2.5	0.70	J
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 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	100	0.00
2	TP	Dichlorodifluoromethane	0.265	0.246	7.2	84	0.00
3	TP	Chloromethane	0.227	0.260	-14.5	114	0.00
4	TP	Vinyl chloride	0.235	0.243	-3.4	93	0.00
5	TP	Bromomethane	0.125	0.212	-69.6#	172	0.00
6	TP	Chloroethane	0.180	0.196	-8.9	105	0.00
7	TP	Trichlorofluoromethane	0.345	0.344	0.3	101	0.00
8	TP	Ethyl ether	0.115	0.116	-0.9	102	0.00
10	TP	1,1-Dichloroethene	0.189	0.187	1.1	94	0.00
11	TP	Carbon disulfide	0.556	0.499	10.3	87	0.00
12	TP	Freon-113	0.208	0.195	6.2	91	0.00
13	TP	Iodomethane	0.365	0.234	35.9#	67	0.00
14	TP	Acrolein	0.033	0.022	33.3#	63	0.00
15	TP	Methylene chloride	0.224	0.220	1.8	98	0.00
17	TP	Acetone	* 10.000	9.753	2.5	107	0.00
18	TP	trans-1,2-Dichloroethene	0.207	0.205	1.0	94	0.00
19	TP	Methyl acetate	0.115	0.111	3.5	101	0.00
20	TP	Methyl tert-butyl ether	0.636	0.546	14.2	87	0.00
21	TP	tert-Butyl alcohol	0.018	0.018	0.0	102	0.00
22	TP	Diisopropyl ether	0.650	0.658	-1.2	99	0.00
23	TP	1,1-Dichloroethane	0.375	0.385	-2.7	98	0.00
24	TP	Halothane	0.172	0.169	1.7	94	0.00
25	TP	Acrylonitrile	0.058	0.053	8.6	91	0.00
26	TP	Ethyl tert-butyl ether	0.639	0.611	4.4	95	0.00
27	TP	Vinyl acetate	0.347	0.348	-0.3	94	0.00
28	TP	cis-1,2-Dichloroethene	0.238	0.242	-1.7	99	0.00
29	TP	2,2-Dichloropropane	0.313	0.278	11.2	87	0.00
30	TP	Bromochloromethane	0.116	0.113	2.6	94	0.00
31	TP	Cyclohexane	0.356	0.319	10.4	85	0.00
32	TP	Chloroform	0.384	0.402	-4.7	99	0.00
33	TP	Ethyl acetate	0.170	0.168	1.2	104	0.00
34	TP	Carbon tetrachloride	0.311	0.319	-2.6	93	0.00
35	TP	Tetrahydrofuran	0.056	0.054	3.6	93	0.00
36	S	Dibromofluoromethane	0.261	0.258	1.1	99	0.00
37	TP	1,1,1-Trichloroethane	0.354	0.365	-3.1	98	0.00
39	TP	2-Butanone	0.073	0.075	-2.7	104	0.00
40	TP	1,1-Dichloropropene	0.283	0.296	-4.6	100	0.00
41	TP	Benzene	0.857	0.889	-3.7	97	0.00
42	TP	tert-Amyl methyl ether	0.585	0.570	2.6	98	0.00

Calibration Verification Summary
Form 7
Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2446856	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: GONZO		**Calibration Date**	: 08/21/24 06:30	
Lab File ID	: VG240821A01		**Init. Calib. Date(s)**	: 07/12/24	07/13/24
Sample No	: WG1962337-2		**Init. Calib. Times**	: 21:20	00:56
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.209	0.232	-	-11	20	107	0
Bromodichloromethane	0.305	0.31	-	-1.6	20	101	0
1,4-Dioxane	0.00213	0.00157*	-	26.3*	20	79	0
cis-1,3-Dichloropropene	0.341	0.335	-	1.8	20	98	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.255	1.261	-	-0.5	20	101	0
Toluene	0.695	0.72	-	-3.6	20	99	0
4-Methyl-2-pentanone	0.077	0.074	-	3.9	20	95	0
Tetrachloroethene	0.305	0.331	-	-8.5	20	103	0
trans-1,3-Dichloropropene	0.38	0.372	-	2.1	20	95	0
Ethyl methacrylate	0.32	0.277	-	13.4	20	88	0
1,1,2-Trichloroethane	0.191	0.203	-	-6.3	20	106	0
Chlorodibromomethane	0.302	0.293	-	3	20	95	0
1,3-Dichloropropane	0.38	0.393	-	-3.4	20	100	0
1,2-Dibromoethane	0.242	0.238	-	1.7	20	98	0
2-Hexanone	0.142	0.133	-	6.3	20	100	0
Chlorobenzene	0.775	0.811	-	-4.6	20	101	0
Ethylbenzene	1.327	1.385	-	-4.4	20	100	0
1,1,1,2-Tetrachloroethane	0.288	0.288	-	0	20	97	0
p/m Xylene	0.525	0.543	-	-3.4	20	98	0
o Xylene	0.508	0.521	-	-2.6	20	98	0
Styrene	0.861	0.887	-	-3	20	99	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	106	0
Bromoform	0.354	0.312	-	11.9	20	96	0
Isopropylbenzene	2.237	2.19	-	2.1	20	97	0
4-Bromofluorobenzene	0.835	0.743	-	11	20	97	0
Bromobenzene	0.619	0.614	-	0.8	20	102	0
n-Propylbenzene	2.606	2.614	-	-0.3	20	101	0
1,4-Dichlorobutane	0.718	0.776	-	-8.1	20	114	0
1,1,2,2-Tetrachloroethane	0.497	0.506	-	-1.8	20	108	0
4-Ethyltoluene	2.179	2.185	-	-0.3	20	100	0
2-Chlorotoluene	1.598	1.594	-	0.3	20	102	0
1,3,5-Trimethylbenzene	1.929	1.926	-	0.2	20	100	0
1,2,3-Trichloropropane	0.416	0.402	-	3.4	20	102	0
trans-1,4-Dichloro-2-buten	0.114	0.137	-	-20.2*	20	140	0
4-Chlorotoluene	1.645	1.63	-	0.9	20	99	0
tert-Butylbenzene	1.559	1.553	-	0.4	20	98	0
1,2,4-Trimethylbenzene	1.9	1.884	-	0.8	20	98	0
sec-Butylbenzene	2.217	2.212	-	0.2	20	98	0
p-Isopropyltoluene	1.925	1.956	-	-1.6	20	101	0
1,3-Dichlorobenzene	1.136	1.18	-	-3.9	20	104	0
1,4-Dichlorobenzene	1.17	1.214	-	-3.8	20	105	0
p-Diethylbenzene	1.106	1.084	-	2	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2446856	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: GONZO		**Calibration Date**	: 08/21/24 06:30	
Lab File ID	: VG240821A01		**Init. Calib. Date(s)**	: 07/12/24	07/13/24
Sample No	: WG1962337-2		**Init. Calib. Times**	: 21:20	00:56
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.522	1.575	-	-3.5	20	103	0
1,2-Dichlorobenzene	1.084	1.11	-	-2.4	20	104	0
1,2,4,5-Tetramethylbenzene	1.655	1.417	-	14.4	20	89	0
1,2-Dibromo-3-chloropropan	0.092	0.078	-	15.2	20	96	0
1,3,5-Trichlorobenzene	0.713	0.744	-	-4.3	20	107	0
Hexachlorobutadiene	0.2	0.219	-	-9.5	20	116	0
1,2,4-Trichlorobenzene	0.618	0.571	-	7.6	20	97	0
Naphthalene	1.387	0.966	-	30.4*	20	77	0
1,2,3-Trichlorobenzene	0.514	0.448	-	12.8	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2446856	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: VOA122		**Calibration Date**	: 08/21/24 18:03	
Lab File ID	: V22240821A01		**Init. Calib. Date(s)**	: 07/29/24	07/29/24
Sample No	: WG1962545-2		**Init. Calib. Times**	: 13:23	17:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	93	0
Dichlorodifluoromethane	0.197	0.159	-	19.3	20	69	0
Chloromethane	0.263	0.235	-	10.6	20	72	0
Vinyl chloride	0.208	0.224	-	-7.7	20	90	0
Bromomethane	0.084	0.046	-	45.2*	20	56	0
Chloroethane	0.12	0.108	-	10	20	75	0
Trichlorofluoromethane	10	10.508	-	-5.1	20	91	0
Ethyl ether	0.07	0.062	-	11.4	20	79	0
1,1-Dichloroethene	0.138	0.143	-	-3.6	20	87	0
Carbon disulfide	0.454	0.452	-	0.4	20	82	0
Freon-113	0.143	0.155	-	-8.4	20	93	0
Iodomethane	0.182	0.103	-	43.4*	20	56	0
Acrolein	0.024	0.021	-	12.5	20	79	0
Methylene chloride	0.183	0.158	-	13.7	20	77	0
Acetone	0.033	0.032	-	3	20	86	0
trans-1,2-Dichloroethene	0.162	0.154	-	4.9	20	81	0
Methyl acetate	0.086	0.074	-	14	20	81	0
Methyl tert-butyl ether	0.309	0.271	-	12.3	20	79	0
tert-Butyl alcohol	0.00648	0.00664*	-	-2.5	20	92	0
Diisopropyl ether	0.581	0.497	-	14.5	20	78	0
1,1-Dichloroethane	0.331	0.323	-	2.4	20	82	0
Halothane	0.121	0.119	-	1.7	20	83	0
Acrylonitrile	0.046	0.044	-	4.3	20	83	0
Ethyl tert-butyl ether	0.418	0.364	-	12.9	20	82	0
Vinyl acetate	0.348	0.286	-	17.8	20	75	0
cis-1,2-Dichloroethene	0.179	0.168*	-	6.1	20	79	0
2,2-Dichloropropane	0.207	0.217	-	-4.8	20	90	0
Bromochloromethane	0.085	0.082*	-	3.5	20	82	0
Cyclohexane	10	10.585	-	-5.9	20	93	0
Chloroform	0.286	0.263*	-	8	20	81	0
Ethyl acetate	0.112	0.092	-	17.9	20	77	0
Carbon tetrachloride	0.206	0.22	-	-6.8	20	88	0
Tetrahydrofuran	0.037	0.033	-	10.8	20	80	0
Dibromofluoromethane	0.349	0.347	-	0.6	20	90	0
1,1,1-Trichloroethane	0.241	0.241	-	0	20	85	0
2-Butanone	0.047	0.042	-	10.6	20	88	0
1,1-Dichloropropene	0.195	0.185	-	5.1	20	80	0
Benzene	0.633	0.605	-	4.4	20	86	0
tert-Amyl methyl ether	0.202	0.167	-	17.3	20	82	0
1,2-Dichloroethane-d4	0.295	0.302	-	-2.4	20	92	0
1,2-Dichloroethane	0.158	0.149	-	5.7	20	82	0
Methyl cyclohexane	10	10.114	-	-1.1	20	97	0
Trichloroethene	0.135	0.122*	-	9.6	20	79	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2446856	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: VOA122		**Calibration Date**	: 08/21/24 18:03	
Lab File ID	: V22240821A01		**Init. Calib. Date(s)**	: 07/29/24	07/29/24
Sample No	: WG1962545-2		**Init. Calib. Times**	: 13:23	17:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.068	0.064	-	5.9	20	84	0
1,2-Dichloropropane	0.141	0.129*	-	8.5	20	78	0
2-Chloroethyl vinyl ether	0.054	0.047	-	13	20	83	0
Bromodichloromethane	0.167	0.152*	-	9	20	81	0
1,4-Dioxane	0.00056	0.0006*	-	-7.1	20	93	0
cis-1,3-Dichloropropene	0.172	0.161*	-	6.4	20	80	0
Chlorobenzene-d5	1	1	-	0	20	93	0
Toluene-d8	1.274	1.233	-	3.2	20	91	0
Toluene	0.412	0.383	-	7	20	84	0
4-Methyl-2-pentanone	0.033	0.028*	-	15.2	20	91	0
Tetrachloroethene	0.162	0.176	-	-8.6	20	97	0
trans-1,3-Dichloropropene	10	7.851	-	21.5*	20	85	0
Ethyl methacrylate	0.133	0.099	-	25.6*	20	74	0
1,1,2-Trichloroethane	0.097	0.08*	-	17.5	20	80	0
Chlorodibromomethane	10	8.373	-	16.3	20	87	0
1,3-Dichloropropane	0.19	0.167	-	12.1	20	83	0
1,2-Dibromoethane	0.108	0.097*	-	10.2	20	85	0
2-Hexanone	0.061	0.05	-	18	20	85	0
Chlorobenzene	0.467	0.436	-	6.6	20	84	0
Ethylbenzene	0.778	0.744	-	4.4	20	81	0
1,1,1,2-Tetrachloroethane	0.148	0.139	-	6.1	20	90	0
p/m Xylene	0.302	0.297	-	1.7	20	83	0
o Xylene	0.285	0.274	-	3.9	20	81	0
Styrene	0.459	0.441	-	3.9	20	82	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	98	0
Bromoform	0.15	0.129	-	14	20	93	0
Isopropylbenzene	1.551	1.5	-	3.3	20	85	0
4-Bromofluorobenzene	0.911	0.848	-	6.9	20	89	0
Bromobenzene	0.365	0.334	-	8.5	20	88	0
n-Propylbenzene	1.802	1.702	-	5.5	20	84	0
1,4-Dichlorobutane	0.472	0.411	-	12.9	20	85	0
1,1,2,2-Tetrachloroethane	0.254	0.206	-	18.9	20	82	0
4-Ethyltoluene	1.469	1.384	-	5.8	20	85	0
2-Chlorotoluene	1.086	0.973	-	10.4	20	82	0
1,3,5-Trimethylbenzene	1.245	1.161	-	6.7	20	84	0
1,2,3-Trichloropropane	0.194	0.161	-	17	20	82	0
trans-1,4-Dichloro-2-buten	0.086	0.077	-	10.5	20	90	0
4-Chlorotoluene	1.121	0.991	-	11.6	20	81	0
tert-Butylbenzene	1.081	1.062	-	1.8	20	88	0
1,2,4-Trimethylbenzene	1.391	1.167	-	16.1	20	75	0
sec-Butylbenzene	10	9.272	-	7.3	20	87	0
p-Isopropyltoluene	10	9.356	-	6.4	20	88	0
1,3-Dichlorobenzene	0.724	0.687	-	5.1	20	89	0

*** Value outside of QC limits.**

Matrix Spike Sample Summary
Form 3
Petroleum

Client	: AKRF, Inc.	**Lab Number**	: L2446856
Project Name	: BUD NORTH	**Project Number**	: 200112
Client Sample ID	: MW-03_20240816	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2446856-03	**Analysis Date**	: 08/27/24 01:41
Matrix Spike	: WG1963166-4	**MS Analysis Date**	: 08/27/24 03:05
Matrix Spike Dup	: WG1963166-5	**MSD Analysis Date**	: 08/27/24 04:29

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**		**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**		**Recovery Limits**	**RPD Limit**
Nonane (C9)	ND	243	53.9	22	Q	243	141	58	89	Q	50-150	30
Decane (C10)	ND	243	83.1	34	Q	243	169	70	68	Q	50-150	30
Dodecane (C12)	ND	243	145	60		243	192	79	28		50-150	30
Tetradecane (C14)	ND	243	173	71		243	198	82	14		50-150	30
Hexadecane (C16)	ND	243	188	77		243	211E	86	11		50-150	30
Octadecane (C18)	3.81	243	196E	79		243	219E	89	11		50-150	30
Nonadecane (C19)	ND	243	189	78		243	211E	87	11		50-150	30
Eicosane (C20)	ND	243	189	78		243	212E	87	11		50-150	30
Docosane (C22)	ND	243	182	75		243	204E	84	12		50-150	30
Tetracosane (C24)	ND	243	192	79		243	214E	88	11		50-150	30
Hexacosane (C26)	ND	243	176	72		243	195E	80	11		50-150	30
Octacosane (C28)	ND	243	167	69		243	187	77	12		50-150	30
Triacontane (C30)	ND	243	155	64		243	181	74	15		50-150	30
Hexatriacontane (C36)	ND	243	94.4	39	Q	243	129	53	31	Q	50-150	30

ANALYTICAL REPORT

Lab Number:	L2446856
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:	09/03/24

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: L2446856
Report Date: 09/03/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2446856-01	MW-01_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 14:55	08/16/24
L2446856-02	MW-02_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 13:35	08/16/24
L2446856-03	MW-03_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 12:15	08/16/24
L2446856-04	MW-0X_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 12:00	08/16/24
L2446856-05	FB-01_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 13:30	08/16/24
L2446856-06	TB-01_20240816	WATER	LONG ISLAND CITY, NY	08/16/24 00:00	08/16/24

Project Name:	BUD NORTH	**Lab Number:**	L2446856
Project Number:	200112	**Report Date:**	09/03/24

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	**Lab Number:**	L2446856
Project Number:	200112	**Report Date:**	09/03/24

Case Narrative (continued)

Report Submission

September 03, 2024: This final report includes the results of all requested analyses.

August 23, 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.

Sample Receipt

The project number and project location were specified by the client.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 09/03/24

ORGANICS

VOLATILES

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-01
Client ID: MW-01_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 14:55
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 20:09
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	1.0		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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-01 Date Collected: 08/16/24 14:55

Client ID: MW-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	1.4	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	8.4		ug/l	2.5	0.70	1

Project Name: BUD NORTH **Lab Number:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-01 Date Collected: 08/16/24 14:55

Client ID: MW-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-02
Client ID: MW-02_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 13:35
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 20:34
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	2.0		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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-02 Date Collected: 08/16/24 13:35

Client ID: MW-02_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	1.6	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	9.6		ug/l	2.5	0.70	1

Project Name: BUD NORTH **Lab Number:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-02 Date Collected: 08/16/24 13:35

Client ID: MW-02_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-03
Client ID: MW-03_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 12:15
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 20:59
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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-03 Date Collected: 08/16/24 12:15

Client ID: MW-03_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-03 Date Collected: 08/16/24 12:15

Client ID: MW-03_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-04
Client ID: MW-0X_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 12:00
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 21:24
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	2.0		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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-04 Date Collected: 08/16/24 12:00

Client ID: MW-0X_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	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	10		ug/l	2.5	0.70	1

Project Name: BUD NORTH **Lab Number:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-04 Date Collected: 08/16/24 12:00

Client ID: MW-0X_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	102		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-05
Client ID: FB-01_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 13:30
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 10:52
Analyst: MAG

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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-05 Date Collected: 08/16/24 13:30

Client ID: FB-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	1.5	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	1.1	J	ug/l	2.5	0.70	1

Project Name: BUD NORTH **Lab Number:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-05 Date Collected: 08/16/24 13:30

Client ID: FB-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: BUD NORTH **Lab Number:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-06 Date Collected: 08/16/24 00:00

Client ID: TB-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 08/21/24 11:15

Analyst: MAG

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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-06 Date Collected: 08/16/24 00:00

Client ID: TB-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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:** L2446856

Project Number: 200112 **Report Date:** 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-06 Date Collected: 08/16/24 00:00

Client ID: TB-01_20240816 Date Received: 08/16/24

Sample Location: LONG ISLAND CITY, 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	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 08:05
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1962337-5					
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
1,1,2,2-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: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 08:05
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1962337-5					
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: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 08:05
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1962337-5					
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	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	105		70-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 19:43
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1962545-5					
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
1,1,2,2-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: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 19:43
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1962545-5					
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: L2446856
Report Date: 09/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/21/24 19:43
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1962545-5					
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	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1962337-3 WG1962337-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	100		99		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	97		100		63-130	3		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		95		62-150	15		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	98		110		70-130	12		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	88		95		54-136	8		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	110		110		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	60		63		39-139	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1962337-3 WG1962337-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	130		**140**	Q	55-138	7		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	99		95		70-130	4		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	91		97		63-130	6		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	97		100		64-130	3		20
Acrylonitrile	110		130		70-130	17		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	100		94		36-147	6		20
Acetone	95		110		58-148	15		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	110		120		63-138	9		20
Vinyl acetate	**150**	Q	**160**	Q	70-130	6		20
4-Methyl-2-pentanone	96		110		59-130	14		20
2-Hexanone	94		100		57-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1962337-3 WG1962337-4								
Bromochloromethane	99		100		70-130	1		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	98		100		70-130	2		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	99		100		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		98		70-130	2		20
tert-Butylbenzene	100		97		70-130	3		20
o-Chlorotoluene	100		98		70-130	2		20
p-Chlorotoluene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	85		89		41-144	5		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	98		97		70-130	1		20
p-Isopropyltoluene	100		97		70-130	3		20
Naphthalene	70		82		70-130	16		20
n-Propylbenzene	100		98		69-130	2		20
1,2,3-Trichlorobenzene	87		99		70-130	13		20
1,2,4-Trichlorobenzene	92		98		70-130	6		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	99		98		70-130	1		20
1,4-Dioxane	74		86		56-162	15		20
p-Diethylbenzene	98		94		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1962337-3 WG1962337-4								
p-Ethyltoluene	100		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	86		86		70-130	0		20
Ethyl ether	90		100		59-134	11		20
trans-1,4-Dichloro-2-butene	120		130		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		117		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1962545-3 WG1962545-4								
Methylene chloride	86		86		70-130	0		20
1,1-Dichloroethane	98		95		70-130	3		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	91		95		70-130	4		20
Dibromochloromethane	84		85		63-130	1		20
1,1,2-Trichloroethane	83		87		70-130	5		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	94		93		75-130	1		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	91		93		67-130	2		20
trans-1,3-Dichloropropene	78		81		70-130	4		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	95		97		70-130	2		20
Bromoform	86		90		54-136	5		20
1,1,2,2-Tetrachloroethane	81		87		67-130	7		20
Benzene	96		94		70-130	2		20
Toluene	93		92		70-130	1		20
Ethylbenzene	96		95		70-130	1		20
Chloromethane	89		85		64-130	5		20
Bromomethane	54		67		39-139	**21**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1962545-3 WG1962545-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	90		64		55-138	**34**	Q	20
1,1-Dichloroethene	100		98		61-145	2		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	90		95		70-130	5		20
1,2-Dichlorobenzene	93		94		70-130	1		20
1,3-Dichlorobenzene	95		95		70-130	0		20
1,4-Dichlorobenzene	94		94		70-130	0		20
Methyl tert butyl ether	87		95		63-130	9		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	94		91		70-130	3		20
Dibromomethane	94		94		70-130	0		20
1,2,3-Trichloropropane	83		90		64-130	8		20
Acrylonitrile	96		98		70-130	2		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	81		74		36-147	9		20
Acetone	96		100		58-148	4		20
Carbon disulfide	99		95		51-130	4		20
2-Butanone	89		91		63-138	2		20
Vinyl acetate	82		89		70-130	8		20
4-Methyl-2-pentanone	84		89		59-130	6		20
2-Hexanone	81		89		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2446856

Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1962545-3 WG1962545-4								
Bromochloromethane	97		97		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	90		92		70-130	2		20
1,3-Dichloropropane	88		91		70-130	3		20
1,1,1,2-Tetrachloroethane	94		94		64-130	0		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	91		92		53-136	1		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	98		99		70-130	1		20
o-Chlorotoluene	90		92		70-130	2		20
p-Chlorotoluene	88		89		70-130	1		20
1,2-Dibromo-3-chloropropane	85		88		41-144	3		20
Hexachlorobutadiene	94		95		63-130	1		20
Isopropylbenzene	97		97		70-130	0		20
p-Isopropyltoluene	94		94		70-130	0		20
Naphthalene	85		91		70-130	7		20
n-Propylbenzene	94		95		69-130	1		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	93		97		70-130	4		20
1,3,5-Trimethylbenzene	93		93		64-130	0		20
1,2,4-Trimethylbenzene	84		93		70-130	10		20
1,4-Dioxane	108		104		56-162	4		20
p-Diethylbenzene	92		93		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1962545-3 WG1962545-4								
p-Ethyltoluene	94		94		70-130	0		20
1,2,4,5-Tetramethylbenzene	85		88		70-130	3		20
Ethyl ether	89		92		59-134	3		20
trans-1,4-Dichloro-2-butene	89		93		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	99		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

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): 01-04 QC Batch ID: WG1962545-6 WG1962545-7 QC Sample: L2446856-03 Client ID: MW-03_20240816												
Methylene chloride	ND	10	8.8	88		8.8	88		70-130	0		20
1,1-Dichloroethane	ND	10	9.8	98		9.8	98		70-130	0		20
Chloroform	ND	10	9.5	95		9.3	93		70-130	2		20
Carbon tetrachloride	ND	10	11	110		10	100		63-132	10		20
1,2-Dichloropropane	ND	10	9.9	99		10	100		70-130	1		20
Dibromochloromethane	ND	10	8.8	88		8.7	87		63-130	1		20
1,1,2-Trichloroethane	ND	10	9.4	94		9.0	90		70-130	4		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	9.6	96		9.3	93		75-130	3		20
Trichlorofluoromethane	ND	10	10	100		9.9	99		62-150	1		20
1,2-Dichloroethane	ND	10	10	100		9.6	96		70-130	4		20
1,1,1-Trichloroethane	ND	10	10	100		9.9	99		67-130	1		20
Bromodichloromethane	ND	10	9.7	97		9.5	95		67-130	2		20
trans-1,3-Dichloropropene	ND	10	8.2	82		8.1	81		70-130	1		20
cis-1,3-Dichloropropene	ND	10	9.6	96		9.3	93		70-130	3		20
1,1-Dichloropropene	ND	10	10	100		9.9	99		70-130	1		20
Bromoform	ND	10	9.2	92		9.3	93		54-136	1		20
1,1,2,2-Tetrachloroethane	ND	10	9.3	93		9.1	91		67-130	2		20
Benzene	ND	10	10	100		9.7	97		70-130	3		20
Toluene	ND	10	9.5	95		9.3	93		70-130	2		20
Ethylbenzene	ND	10	9.8	98		9.4	94		70-130	4		20
Chloromethane	ND	10	8.4	84		8.3	83		64-130	1		20
Bromomethane	ND	10	2.0J	**20**	Q	3.1	**31**	Q	39-139	**43**	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

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): 01-04 QC Batch ID: WG1962545-6 WG1962545-7 QC Sample: L2446856-03 Client ID: MW-03_20240816												
Vinyl chloride	ND	10	10	100		10	100		55-140	0		20
Chloroethane	ND	10	8.1	81		10	100		55-138	**21**	Q	20
1,1-Dichloroethene	ND	10	10	100		10	100		61-145	0		20
trans-1,2-Dichloroethene	ND	10	9.7	97		9.4	94		70-130	3		20
Trichloroethene	ND	10	9.8	98		9.1	91		70-130	7		20
1,2-Dichlorobenzene	ND	10	9.7	97		9.4	94		70-130	3		20
1,3-Dichlorobenzene	ND	10	9.7	97		9.3	93		70-130	4		20
1,4-Dichlorobenzene	ND	10	9.5	95		9.1	91		70-130	4		20
Methyl tert butyl ether	ND	10	10	100		10	100		63-130	0		20
p/m-Xylene	ND	20	20	100		19	95		70-130	5		20
o-Xylene	ND	20	20	100		19	95		70-130	5		20
cis-1,2-Dichloroethene	ND	10	9.6	96		9.3	93		70-130	3		20
Dibromomethane	ND	10	9.7	97		9.4	94		70-130	3		20
1,2,3-Trichloropropane	ND	10	9.7	97		9.4	94		64-130	3		20
Acrylonitrile	ND	10	11	110		10	100		70-130	10		20
Styrene	ND	20	20	100		19	95		70-130	5		20
Dichlorodifluoromethane	ND	10	7.5	75		7.1	71		36-147	5		20
Acetone	1.8J	10	12	120		12	120		58-148	0		20
Carbon disulfide	ND	10	10	100		9.8	98		51-130	2		20
2-Butanone	ND	10	10	100		9.5	95		63-138	5		20
Vinyl acetate	ND	10	9.3	93		8.8	88		70-130	6		20
4-Methyl-2-pentanone	ND	10	10	100		10	100		59-130	0		20
2-Hexanone	ND	10	10	100		9.6	96		57-130	4		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

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): 01-04 QC Batch ID: WG1962545-6 WG1962545-7 QC Sample: L2446856-03 Client ID: MW-03_20240816												
Bromochloromethane	ND	10	10	100		9.5	95		70-130	5		20
2,2-Dichloropropane	ND	10	8.4	84		8.2	82		63-133	2		20
1,2-Dibromoethane	ND	10	9.7	97		9.4	94		70-130	3		20
1,3-Dichloropropane	ND	10	9.8	98		9.5	95		70-130	3		20
1,1,1,2-Tetrachloroethane	ND	10	9.6	96		9.4	94		64-130	2		20
Bromobenzene	ND	10	9.7	97		9.3	93		70-130	4		20
n-Butylbenzene	ND	10	9.4	94		8.8	88		53-136	7		20
sec-Butylbenzene	ND	10	9.6	96		8.9	89		70-130	8		20
tert-Butylbenzene	ND	10	10	100		9.6	96		70-130	4		20
o-Chlorotoluene	ND	10	9.0	90		8.6	86		70-130	5		20
p-Chlorotoluene	ND	10	9.2	92		8.8	88		70-130	4		20
1,2-Dibromo-3-chloropropane	ND	10	9.2	92		9.1	91		41-144	1		20
Hexachlorobutadiene	ND	10	9.3	93		8.7	87		63-130	7		20
Isopropylbenzene	ND	10	10	100		9.5	95		70-130	5		20
p-Isopropyltoluene	ND	10	9.6	96		9.0	90		70-130	6		20
Naphthalene	ND	10	9.9	99		9.6	96		70-130	3		20
n-Propylbenzene	ND	10	9.7	97		9.2	92		69-130	5		20
1,2,3-Trichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
1,2,4-Trichlorobenzene	ND	10	10	100		9.6	96		70-130	4		20
1,3,5-Trimethylbenzene	ND	10	9.8	98		9.2	92		64-130	6		20
1,2,4-Trimethylbenzene	ND	10	9.7	97		9.3	93		70-130	4		20
1,4-Dioxane	ND	500	540	108		420	84		56-162	**25**	Q	20
p-Diethylbenzene	ND	10	9.5	95		8.8	88		70-130	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2446856

Report Date: 09/03/24

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): 01-04 QC Batch ID: WG1962545-6 WG1962545-7 QC Sample: L2446856-03 Client ID: MW-03_20240816												
p-Ethyltoluene	ND	10	9.7	97		9.2	92		70-130	5		20
1,2,4,5-Tetramethylbenzene	ND	10	9.3	93		8.8	88		70-130	6		20
Ethyl ether	ND	10	10	100		9.6	96		59-134	4		20
trans-1,4-Dichloro-2-butene	ND	10	9.2	92		8.8	88		70-130	4		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	96		97		70-130
Toluene-d8	96		96		70-130

PETROLEUM HYDROCARBONS

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-01
Client ID: MW-01_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 14:55
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/24 22:53
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	90.6		ug/l	33.0	27.7	1
DRO (C10-C28)	115		ug/l	30.0	19.0	1
ORO (C28-C40)	5.01	J	ug/l	11.0	2.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		50-130
d50-Tetracosane	62		50-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-02
Client ID: MW-02_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 13:35
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/27/24 00:17
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	306		ug/l	32.0	26.9	1
DRO (C10-C28)	303		ug/l	29.1	18.4	1
ORO (C28-C40)	27.7		ug/l	10.7	2.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		50-130
d50-Tetracosane	71		50-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-03
Client ID: MW-03_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 12:15
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/27/24 01:41
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

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	32.0	26.9	1
DRO (C10-C28)	70.7		ug/l	29.1	18.4	1
ORO (C28-C40)	ND		ug/l	10.7	2.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		50-130
d50-Tetracosane	78		50-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-04
Client ID: MW-0X_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 12:00
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/27/24 05:53
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	209		ug/l	32.4	27.2	1
DRO (C10-C28)	237		ug/l	29.4	18.6	1
ORO (C28-C40)	7.41	J	ug/l	10.8	2.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		50-130
d50-Tetracosane	70		50-130

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2446856
Report Date: 09/03/24

SAMPLE RESULTS

Lab ID: L2446856-05
Client ID: FB-01_20240816
Sample Location: LONG ISLAND CITY, NY

Date Collected: 08/16/24 13:30
Date Received: 08/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/27/24 07:17
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

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	34.0	28.6	1
DRO (C10-C28)	ND		ug/l	30.9	19.6	1
ORO (C28-C40)	ND		ug/l	11.3	2.82	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		50-130
d50-Tetracosane	69		50-130

Project Name: BUD NORTH
Project Number: 200112

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/30/24 17:04
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 08/23/24 14:48

Parameter	Result	Qualifier	Units	RL	MDL
Diesel/Other Range Organics by GC-FID - Mansfield Lab for sample(s): 01-05 Batch: WG1963166-1					
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	67		50-130
d50-Tetracosane	68		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

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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: WG1963166-2 WG1963166-3								
Nonane (C9)	60		67		50-130	11		30
Decane (C10)	67		75		50-130	11		30
Dodecane (C12)	77		81		50-130	5		30
Tetradecane (C14)	83		83		50-130	0		30
Hexadecane (C16)	90		88		50-130	2		30
Octadecane (C18)	94		92		50-130	2		30
Nonadecane (C19)	90		88		50-130	2		30
Eicosane (C20)	92		90		50-130	2		30
Docosane (C22)	88		87		50-130	1		30
Tetracosane (C24)	94		92		50-130	2		30
Hexacosane (C26)	88		86		50-130	2		30
Octacosane (C28)	87		85		50-130	2		30
Triacontane (C30)	88		86		50-130	2		30
Hexatriacontane (C36)	79		78		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84		87		50-130
d50-Tetracosane	87		89		50-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2446856

Report Date: 09/03/24

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 Associated sample(s): 01-05 QC Batch ID: WG1963166-4 WG1963166-5 QC Sample: L2446856-03 Client ID: MW-03_20240816												
Nonane (C9)	ND	243	53.9	**22**	Q	141	58		50-150	**89**	Q	30
Decane (C10)	ND	243	83.1	**34**	Q	169	70		50-150	**68**	Q	30
Dodecane (C12)	ND	243	145	60		192	79		50-150	28		30
Tetradecane (C14)	ND	243	173	71		198	82		50-150	14		30
Hexadecane (C16)	ND	243	188	77		211E	86		50-150	11		30
Octadecane (C18)	3.81	243	196E	79		219E	89		50-150	11		30
Nonadecane (C19)	ND	243	189	78		211E	87		50-150	11		30
Eicosane (C20)	ND	243	189	78		212E	87		50-150	11		30
Docosane (C22)	ND	243	182	75		204E	84		50-150	12		30
Tetracosane (C24)	ND	243	192	79		214E	88		50-150	11		30
Hexacosane (C26)	ND	243	176	72		195E	80		50-150	11		30
Octacosane (C28)	ND	243	167	69		187	77		50-150	12		30
Triacontane (C30)	ND	243	155	64		181	74		50-150	15		30
Hexatriacontane (C36)	ND	243	94.4	**39**	Q	129	53		50-150	**31**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
d50-Tetracosane	82		88		50-130
o-Terphenyl	79		84		50-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2446856-01A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-01B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-01C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-01D	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-01E	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-02A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-02B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-02C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-02D	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-02E	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-03A	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03A1	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03A2	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03B	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03B1	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03B2	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03C1	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03C2	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-03D	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-03D1	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-03D2	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)

*Values in parentheses indicate holding time in days

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2446856
Report Date: 09/03/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2446856-03E	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-03E1	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-03E2	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-04A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-04B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-04C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L2446856-04D	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-04E	Amber 1000ml unpreserved	A	7	7	4.4	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-05A	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-05B	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-05C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-05D	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-05E	Amber 1000ml unpreserved	B	7	7	5.0	Y	Absent		A2-TPHDRO/ORO(7)
L2446856-06A	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2446856-06B	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	BUD NORTH	**Lab Number:**	L2446856
Project Number:	200112	**Report Date:**	09/03/24

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: DU Report with 'J' Qualifiers

Project Name:	BUD NORTH	**Lab Number:**	L2446856
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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

Report Format: DU Report with 'J' Qualifiers

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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.)

Project Name:	BUD NORTH	**Lab Number:**	L2446856
Project Number:	200112	**Report Date:**	09/03/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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.
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.

Serial No:09032416:51

L2446856 23AUG24

AKRF – M – 2

NEW YORK CHAIN OF CUSTODY

ALPHA

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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 08/17/24

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:

Client Information

Client: AKRF
Address: 440 Park Ave S
Phone:
Fax:
Email: JDiggins@AKRF.com

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

☐ 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:

AKRF EQuIS, CAT B, Close SDG

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Tot Diol 1,4 8270 EPA 8015	VOC EPA 8260	Sample Specific Comments	Total Bottles
46856-01	MW-01_20240816	8/16/24	1455	GW	MB	X	X		5
-02	MW-02_20240816		1335			X	X		5
-03	MW-03_20240816		1215			X	X		15
-04	MW-0X_20240816		1200			X	X		5
-05	FB-01_20240816		1330			X	X		5
-06	TB-01_20240816		—	W			X		2

Preservative Code	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Tot Diol	VOC
Container Type	Amb	Vial
Preservative	NA	HCL

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Bates	8/16/24 1514	WiFi (Pace)	8/16/24 1514
WiFi (Pace)	8/16/24 2030	Anthony Green	AUG 16 2024 2030
Anthony Green		Christian Pace	8/17/24 0340
Christian Pace	8/17/24 0520	Sylvia Stott	8/17/24

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)

03:20

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:	M.Bates	**Date:**	8/15/2024
Time In:	9:00	**Time Out:**	0:00
General			
Weather: Sunny	Temperature: 87 deg F	Barometric Pressure:	30

1. When was the last rain event? 8/6/2024

2. Is the blower currently operating? Yes

   If no, please list reason/alarm condition:

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

   If no, list location and contact Project Manager/Project Director.

7. Is the concrete floor slab overlying all of the SSDS piping runs intact? - Yes

   If no, list location and contact Project Manager/Project Director.

SSDS MONITORING INSPECTION FORM
Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY

Inspector Name:	M.Bates	**Date:**	8/15/2024
Time In:	9:00	**Time Out:**	0:00

SSDS Operations

Blower Inlet PID (ppm)	**NA**

Monitoring Point (MP) or Riser Leg (RL) Identification	Location	Applied Vacuum[1] in. H_2O	Induced Vacuum[2] in. H_2O	Flow Rate[1] cfm	Notes
MP-01	Incoming Water Room	NA	1.62	NA	
MP-02	West Compactor/Recycle Room	NA	-	NA	temporarily inaccessible
MP-03	West Compactor/Recycle Room	NA	1.78	NA	
MP-04	Fire Pump Room	NA	1.52	NA	
MP-05	Garage Storage	NA	-	NA	temporarily inaccessible
MP-06	Back of House Vestibule	NA	1.62	NA	
MP-07	Bike Room (west)	NA	1.51	NA	
MP-08	Parking Garage	NA	-	NA	temporarily inaccessible
MP-09	Package Room	NA	1.38	NA	
MP-10	Bike Room (east)	NA	1.62	NA	
MP-11	SVE Equipment Room	NA	1.56	NA	
MP-12	East Compactor Room	NA	1.62	NA	
MP-13	West Compactor Room	NA	1.70	NA	
MP-14	SVE Equipment Room	NA	1.63	NA	
SSDS-N1	Water Service Room / SVE Equipment Room	2.2	NA	46	
SSDS-N2		2.5	NA	30	
SSDS-N3		2.5	NA	0.1	
SSDS-N4		2.3	NA	0.1	
SSDS-N5		2.3	NA	37	
SSDS-N6		2.2	NA	40	
SSDS-N7		2.3	NA	38	
SSDS-N8		2.5	NA	34	
SSDS-N9	Loading Dock	2.1	NA	0.1	
SSDS-N10		2.3	NA	46	
SSDS-N11		2.35	NA	30.0	
SSDS-N12		2.1	NA	30	
SSDS-N13		2.2	NA	27	
SSDS-N14		2.2	NA	25	
SSDS-N15		2.2	NA	22	
SSDS-N16		2.2	NA	46	
Combined applied vacuum on SSDS-1 riser =		2.6	NA	NA	
Combined applied vacuum on SSDS-2 riser =		2.4	NA	NA	

Notes:

1. Normal system flow rates range from 5 to 100 cfm. Applied vacuum readings range from 1 to 15 in. H_2O. 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. H_2O. 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 necessary.

in. of H_2O - 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: M.Bates	**Date: 8/15/2024**
Time IN: 900	**Time OUT: 1400**

GENERAL

Weather:	Sunny	Temperature:	87 deg F	Barometric Pressure:	30	Equipment Room Temperature:	85 deg F

When was the last rain event? 8/9/2024

Is the SVE system being cycled on or off this month? On / Off (circle one)

If issues cycling system on or off, ALERT PROJECT MANAGER and please describe issue:

Is the SVE blower currently operating? Yes

If no, ALERT PROJECT MANAGER and please list reason/alarm condition:

What is the VFD setting? 40 Hz

If under 30 Hz, ALERT PROJECT MANAGER:

Is condensate in the knockout tank gauge below the low-high float sensor? Yes

If no, ALERT PROJECT MANAGER and manually drain knockout tank

Is transfer pump working? Yes

If no, ALERT PROJECT MANAGER.

Is 55-gallon drum full? No

If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.

Any evidence of system tampering, vandalism or damage? No

If yes, ALERT PROJECT MANAGER and please note findings:

Any evidence of system tampering, vandalism or damage to the exhaust stack? No

If yes, ALERT PROJECT MANAGER and please note findings:

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:

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)

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
80	140	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	7.5	25
GAC Influent PID (ppm):	**GAC Intermediate PID (ppm):** Less than GAC Influent PID	**GAC Effluent PID (ppm):** <1 ppm
ND	ND	ND

Monitoring Location	Vacuum Reading in. H2O	Air Flow Reading in. H2O	Air Flow Reading CFM	Notes
SVMP-01	1.53	na	na	
SVMP-02	1.63	na	na	
SVMP-03	1.69	na	na	
SVMP-04	1.69	na	na	
SVMP-05	1.69	na	na	
SVMP-06	1.55	na	na	
SVE-01	3.6	0.21	40	
SVE-02	3.8	0.03	15	
SVE-03	3.6	0.28	50	
SVE-04	3.7	0.11	30	
SVE-05	4.0	0.2	7	