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April 12, 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 1st Quarter
Newtown Creek Bud Site (NCBS) – North Block
2-21 Malt Drive, Long Island City, New York
BCP Site ID: C241248**

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 first quarter of 2024 included the following activities as described in this letter report:

- One quarterly groundwater sampling event (March 4, 2024);
- One quarterly detailed routine inspection (March 5, 2024) of the operating SSDS/SVES; and
- One Division of Air Resources (DAR)-1 Analysis of the SVES Effluent.

The next quarterly inspection of the SSDS and SVES and groundwater monitoring will be performed in the second quarter of 2024, which will be documented in the Quarterly Report for the second 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 Regenesi[®] ORC Advanced[®] and PersulfOx[®] in the southwestern portion of the Site. Additionally, engineering controls were constructed at the Site, including installation of an SSDS, SVES, and a site-wide cover system. On November 28, 2022 and December 1, 2022, post-remedial groundwater samples were collected from two post-remedial groundwater monitoring wells installed within the Site boundary (MW-01, MW-02, and MW-03) and submitted for laboratory analysis of VOCs. The post-remedial groundwater samples collected from the Site indicated that petroleum-related VOCs, including benzene, ethylbenzene, xylenes, toluene (collectively referred to as BTEX), and 1,2,4-trimethylbenzene were still present in groundwater at the Site above the Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values (AWQSGVs). A figure presenting the post-remedial groundwater sample results is included as Figure 4.

Quarterly Groundwater Monitoring

This quarterly monitoring report comprises a summary of the findings from the monitoring, sampling, and associated analytical reports and field sampling logs during the first 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 March 4, 2024, groundwater samples were collected from the three on-site monitoring wells (MW-01, MW-02, and MW-03) in accordance with United States Environmental Protection Agency (EPA) low flow sampling methodology and the Site-specific Quality Assurance and Project Plan (QAPP) and Field Sampling Plan (FSP), which are included as Appendix H of the SMP. Matrix spike/matrix spike duplicates (MS/MSD) samples and a blind duplicate sample were taken and analyzed from well MW-02. 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 petroleum-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

Petroleum-related VOCs, including 1,2,4-trimethylbenzene and BTEX were detected in groundwater samples MW-01 and MW-02 (plus the blind duplicate sample). However, only benzene was detected at concentrations that exceed the AWQSGV of 1 µg/L in two monitoring wells MW-01 (4.6 µg/L) and MW-

02 (4.3 µg/L). TPH DRO and GRO were also detected in all three monitoring wells at variable concentrations ranging between 23.5 µg/L to 518 µg/L. A summary of the first quarter 2024 groundwater sample results is provided in Table 1 with concentrations over time provided in Table 2. 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 first quarter of 2024 (on March 5, 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 1.366 to 0.630 inches of water (in H₂O) as summarized in Table I. The applied vacuum in SSDS points (SSDS-N1 through SSDS-N16) ranged from 1.9 to 2.4 in H₂O, and the air flow rate ranged from 33 standard cubic feet per minute (SCFM) to 150 SCFM.

Table I
SSDS Monitoring Point Vacuum Readings – March 2024

Monitoring Point	Vacuum (in. H ₂ O)
MP-1	1.236
MP-2	1.245
MP-3	1.366
MP-4	0.870
MP-5	1.162
MP-6	1.214
MP-7	1.086
MP-8	1.109
MP-9	0.630
MP-10	1.138
MP-11	0.826
MP-12	1.217
MP-13	1.294
MP-14	1.154

SVES Inspection

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

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

The vacuum level of the SVE monitoring points (SVMP-01 through SVMP-06) ranged from -2.6 to -0.851 in H₂O as summarized in Table II, and the well air flow rates for SVE-01 through SVE-05 ranged from 23 to 118 CFM.

Table II
SVE Monitoring Point Vacuum Readings – March 2024

Monitoring Point	Vacuum (in. H ₂ O)
SVMP-1	1.174
SVMP-2	1.250
SVMP-3	1.229
SVMP-4	1.042
SVMP-5	0.851
SVMP-6	1.152

Soil Vapor Extraction System Influent/Intermediate/Effluent Sampling

Confirmatory influent/intermediate/effluent vapor sampling was performed on March 5, 2024 to assess the VOC concentrations in extracted soil vapor from the SVES treatment area, and the condition and lifespan of the granular activated carbon (GAC) units. Influent (SVE-INF_20240305), intermediate (SVE-INT-20240305), and effluent (SVE-EFF-20240305) vapor samples were collected from the piped in series GAC vessels using 1-Liter Tedlar® bags in accordance with the SMP QAPP, and were submitted under proper chain-of custody protocol to Pace and analyzed for VOCs by United State Environmental Protection Agency Method TO-15. The vapor sample analytical results are included in Table 3, with concentrations over time provided in Table 4. The laboratory data report and DUSR are included Attachment B. A summary of vapor concentrations is presented in Table III below:

Table III
Soil Vapor Concentrations – March 2024

Sample ID	SVE-INF_20240305	SVE-INT_20240305	SVE-EFF_20240305
Compound			
Acetone	12.8	22.2	25.9
Dichlorodifluoromethane	34.3	34.4	33.5
Ethanol	28.5	24.9	26.2
Ethylbenzene	2.44	1.82 U	1.82 U
Isopropanol	174	21.9	23.4
M,P-Xylenes	10.4	3.64 U	3.65 U
N-Hexane	1.78	4.93	5.71
O-Xylene (1,2-Dimethylbenzene)	5.86	1.82 U	1.82 U
Tert-Butyl Alcohol	NR	NR	NR
Tetrachloroethylene (PCE)	24.4	2.83 U	4.71

Sample ID	SVE-INF_20240305	SVE-INT_20240305	SVE-EFF_20240305
Compound			
Tetrahydrofuran	3.1 U	3.1 U	4.1
Toluene	4.64	14.8	12.7
Trichlorofluoromethane (Freon-12)	101	71.4	68.6

Notes:Compounds are reported in ug/m³.

U - analyte not detected at or above the level indicated

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™).

Comparison to NYSDOH Guideline Concentrations

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

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

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

Following the next vapor sampling event conducted in the fourth quarter of 2024, both the influent and effluent data will be modeled and compared against the DAR-1 SGCs and AGCs to determine whether SVE vapor treatment using the GAC units remain warranted.

ConclusionsGroundwater Monitoring

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

favorable (low) post-remedial groundwater results indicate that a reduction in the frequency and duration of the required groundwater monitoring program as per the SMP may be warranted.

SSDS Inspection

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

SVES Inspection and Soil Vapor Effluent Sampling

The vacuum and flow rate readings collected at the SVES the monitoring points and manifold indicated that the post-blower pressure slightly exceeds the expected level, but overall system is operating properly at the Site. The system sampling data indicate that the influent and effluent vapor concentrations remain relatively low. The results of the DAR-1 analysis indicated that no VOCs detected in the effluent sample would exceed their respective SGCs or AGCs at the closest sensitive receptors.

Scheduled Activities

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

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

The next quarterly groundwater sampling event, SSDS inspection, and SVES inspection will be performed during the second quarter of 2024 (June of 2024).

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

cc (electronic copy only):

Andre Obligado, Jane O’Connell – NYSDEC

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

Rebecca Kinal, P.E. – AKRF

TABLES

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

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20240304 L2411621-01 3/04/2024 µg/L 1	MW-02_20240304 L2411621-02 3/04/2024 µg/L 1	MW-0X_20240304 L2411621-04 3/04/2024 µg/L 1	MW-03_20240304 L2411621-03 3/04/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	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
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	NR	NR	NR	NR
1,1,2-Trichloroethane	1	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
1,1-Dichloroethene	5	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
1,2,3-Trichlorobenzene	5	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
1,2,4,5-Tetramethylbenzene	5	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
1,2,4-Trimethylbenzene	5	0.7 J	1.3 J	1.2 J	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	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
1,2-Dichloropropane	1	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
1,3-Dichloropropane	5	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
1,4-Diethyl Benzene	NS	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-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	2 U	2 U	2 U	2 U
Acetone	50	1.7 J	5 U	5 U	5 U
Acrolein	5	NR	NR	NR	NR
Acrylonitrile	5	5 U	5 U	5 U	5 U
Benzene	1	4.6	4.3	4	0.5 U
Bromobenzene	5	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
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	2 UJ	2 UJ	2 UJ	2 UJ
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	2.2 J	1.5 J	1.2 J	5 U
Carbon Tetrachloride	5	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
Chloroethane	5	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
Chloromethane	5	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
Cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NS	NR	NR	NR	NR
Cymene	5	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Dibromomethane	5	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U
Dichloroethylenes	NS	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
Ethylbenzene	5	1.2 J	1.2 J	1.1 J	2.5 U
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	5	1.2 J	1.1 J	1 J	2.5 U
Methyl Acetate	NS	NR	NR	NR	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	5 U
Methylcyclohexane	NS	NR	NR	NR	NR
Methylene Chloride	5	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
N-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	1.1 J	1.3 J	1.2 J	2.5 U
Sec-Butylbenzene	5	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
T-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Alcohol	NS	NR	NR	NR	NR
Tert-Butyl Methyl Ether	10	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
Toluene	5	1 J	0.89 J	0.82 J	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Trichloroethylene (TCE)	5	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
Vinyl Acetate	NS	5 U	5 U	5 U	5 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2.3 J	2.4 J	2.2 J	2.5 U
TPH - DRO (C10 through C44)	NS	438	518	469	116
TPH - ORO (C28 through C-40)	NS	144	104	1 U	23.5

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

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-01_20221128 22K1477-01 11/28/2022 µg/L 25	DUP-01_20221128 22K1477-02 11/28/2022 µg/L 25	MW-01_20240304 L2411621-01 3/04/2024 µg/L 1	MW-02_20221201 22L0110-02 12/01/2022 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	5 U	5 U	2.5 U	0.2 U
1,1,1-Trichloroethane	5	5 U	5 U	2.5 U	0.2 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	0.5 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	5 U	5 U	NR	0.2 U
1,1,2-Trichloroethane	1	5 U	5 U	1.5 U	0.2 U
1,1-Dichloroethane	5	5 U	5 U	2.5 U	0.2 U
1,1-Dichloroethene	5	5 U	5 U	0.5 U	0.2 U
1,1-Dichloropropene	5	5 U	5 U	2.5 U	0.2 U
1,2,3-Trichlorobenzene	5	5 U	5 U	2.5 U	0.2 U
1,2,3-Trichloropropane	0.04	5 U	5 U	2.5 U	0.2 U
1,2,4,5-Tetramethylbenzene	5	NR	NR	2 U	NR
1,2,4-Trichlorobenzene	5	NR	NR	2.5 U	NR
1,2,4-Trimethylbenzene	5	5 U	7 JD	0.7 J	0.37 J
1,2-Dibromo-3-Chloropropane	0.04	NR	NR	2.5 UJ	NR
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	NR	NR	2 U	NR
1,2-Dichlorobenzene	3	NR	NR	2.5 U	NR
1,2-Dichloroethane	0.6	5 U	5 U	0.5 U	0.2 U
1,2-Dichloropropane	1	5 U	5 U	1 U	0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	5	5 U	5 U	2.5 U	0.2 U
1,3-Dichloropropane	5	5 U	5 U	2.5 U	0.2 U
1,4-Dichlorobenzene	3	NR	NR	2.5 U	NR
1,4-Diethyl Benzene	NS	NR	NR	2 U	NR
2,2-Dichloropropane	5	5 UJ	5 UJ	2.5 U	0.2 UJ
2-Chlorotoluene	5	5 U	5 U	2.5 U	0.2 U
2-Hexanone	50	5 U	5 U	5 U	0.2 U
4-Chlorotoluene	5	5 U	5 U	2.5 U	0.2 U
4-Ethyltoluene	NS	NR	NR	2 U	NR
Acetone	50	25 UJ	25 UJ	1.7 J	1 UJ
Acrolein	5	5 UJ	5 UJ	NR	0.2 UJ
Acrylonitrile	5	5 U	5 U	5 U	0.2 U
Benzene	1	31.8 D	34.2 D	4.6	0.93
Bromobenzene	5	5 U	5 U	2.5 U	0.2 U
Bromochloromethane	5	5 U	5 U	2.5 U	0.2 U
Bromodichloromethane	50	5 U	5 U	0.5 U	0.2 U
Bromoform	50	5 U	5 U	2 UJ	0.2 U
Bromomethane	5	5 UJ	5 UJ	2.5 UJ	0.2 UJ
Carbon Disulfide	60	7.5 JD	8 JD	2.2 J	0.29 J
Carbon Tetrachloride	5	5 U	5 U	0.5 U	0.2 U
Chlorobenzene	5	5 U	5 U	2.5 U	0.2 U
Chloroethane	5	5 U	5 U	2.5 U	0.2 U
Chloroform	7	5 U	5 U	2.5 U	0.2 U
Chloromethane	5	5 U	5 U	2.5 U	0.2 U
Cis-1,2-Dichloroethylene	5	5 U	5 U	2.5 U	0.2 U
Cis-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.2 U
Cyclohexane	NS	5 U	5 U	NR	0.2 U
Cymene	5	NR	NR	2.5 U	NR
Dibromochloromethane	50	5 U	5 U	0.5 UJ	0.2 U
Dibromomethane	5	5 U	5 U	5 U	0.2 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	1.16
Dichloroethylenes	NS	NR	NR	2.5 U	NR
Diethyl Ether (Ethyl Ether)	NS	NR	NR	2.5 U	NR
Ethylbenzene	5	7.25 JD	8.25 JD	1.2 J	0.37 J
Isopropylbenzene (Cumene)	5	5 U	5 U	2.5 U	0.2 U
M,P-Xylenes	5	14 JD	15 JD	1.2 J	0.55 J
Methyl Acetate	NS	5 U	5 U	NR	0.2 U
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	5 U	0.29 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	5 U	0.2 U
Methylcyclohexane	NS	5 U	5 U	NR	0.2 U
Methylene Chloride	5	25 U	25 U	2.5 U	1 U
N-Butylbenzene	5	5 U	5 U	2.5 U	0.2 UJ
N-Propylbenzene	5	5 U	5 U	2.5 U	0.2 U
O-Xylene (1,2-Dimethylbenzene)	5	10.8 JD	11.8 JD	1.1 J	0.49 J
Sec-Butylbenzene	5	5 U	5 U	2.5 U	0.2 U
Styrene	5	5 U	5 U	2.5 U	0.2 U
T-Butylbenzene	5	5 U	5 U	2.5 U	0.2 U
Tert-Butyl Alcohol	NS	12.5 U	12.5 U	NR	0.5 U
Tert-Butyl Methyl Ether	10	5 U	5 U	2.5 U	0.2 U
Tetrachloroethylene (PCE)	5	5 U	5 U	0.5 U	0.2 U
Toluene	5	13 D	14.2 D	1 J	0.84
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	NR	NR	0.5 U	NR
Trans-1,2-Dichloroethene	5	5 U	5 U	2.5 U	0.2 U
Trans-1,3-Dichloropropene	NS	5 U	5 U	0.5 U	0.2 U
Trans-1,4-Dichloro-2-Butene	5	NR	NR	2.5 UJ	NR
Trichloroethylene (TCE)	5	5 U	5 U	0.5 U	0.2 U
Trichlorofluoromethane	5	5 U	5 U	2.5 U	0.41 J
Vinyl Acetate	NS	NR	NR	5 U	NR
Vinyl Chloride	2	5 U	5 U	1 U	0.2 U
Xylenes, Total	NS	24.8 JD	26.8 JD	2.3 J	1.04 J
TPH - DRO (C10 through C44)	NS	NR	NR	438	NR
TPH - ORO (C28 through C-40)	NS	NR	NR	144	NR

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

AKRF Sample ID Laboratory Sample ID Date Sampled Unit Dilution Factor		MW-02_20240304 L2411621-02 3/04/2024 µg/L 1	MW-0X_20240304 L2411621-04 3/04/2024 µg/L 1	MW-03_20221201 22L0110-01 12/01/2022 µg/L 1	MW-03_20240304 L2411621-03 3/04/2024 µg/L 1
Compound	AWQSGV	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	0.2 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	0.2 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.2 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	5	NR	NR	0.2 U	NR
1,1,2-Trichloroethane	1	1.5 U	1.5 U	0.2 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	0.2 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.2 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	0.2 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U	0.2 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	NR	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	NR	2.5 U
1,2,4-Trimethylbenzene	5	1.3 J	1.2 J	0.2 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	2.5 UJ	2.5 UJ	NR	2.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U	2 U	NR	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	NR	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.2 U	0.5 U
1,2-Dichloropropane	1	1 U	1 U	0.2 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	2.5 U	0.2 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	0.2 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	NR	2.5 U
1,4-Diethyl Benzene	NS	2 U	2 U	NR	2 U
2,2-Dichloropropane	5	2.5 U	2.5 U	0.2 UJ	2.5 U
2-Chlorotoluene	5	2.5 U	2.5 U	0.2 U	2.5 U
2-Hexanone	50	5 U	5 U	0.2 U	5 U
4-Chlorotoluene	5	2.5 U	2.5 U	0.2 U	2.5 U
4-Ethyltoluene	NS	2 U	2 U	NR	2 U
Acetone	50	5 U	5 U	1 UJ	5 U
Acrolein	5	NR	NR	0.2 UJ	NR
Acrylonitrile	5	5 U	5 U	0.2 U	5 U
Benzene	1	4.3	4	0.2 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	0.2 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.2 U	0.5 U
Bromoform	50	2 UJ	2 UJ	0.2 U	2 UJ
Bromomethane	5	2.5 UJ	2.5 UJ	0.2 UJ	2.5 UJ
Carbon Disulfide	60	1.5 J	1.2 J	0.2 U	5 U
Carbon Tetrachloride	5	0.5 U	0.5 U	0.2 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	0.2 U	2.5 U
Chloroform	7	2.5 U	2.5 U	0.2 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	0.2 U	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U	2.5 U	0.2 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.2 U	0.5 U
Cyclohexane	NS	NR	NR	0.2 U	NR
Cymene	5	2.5 U	2.5 U	NR	2.5 U
Dibromochloromethane	50	0.5 UJ	0.5 UJ	0.2 U	0.5 UJ
Dibromomethane	5	5 U	5 U	0.2 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	0.2 U	5 U
Dichloroethylenes	NS	2.5 U	2.5 U	NR	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U	2.5 U	NR	2.5 U
Ethylbenzene	5	1.2 J	1.1 J	0.2 U	2.5 U
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	0.2 U	2.5 U
M,P-Xylenes	5	1.1 J	1 J	0.5 U	2.5 U
Methyl Acetate	NS	NR	NR	0.2 U	NR
Methyl Ethyl Ketone (2-Butanone)	50	5 U	5 U	0.2 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 U	5 U	0.2 U	5 U
Methylcyclohexane	NS	NR	NR	0.2 U	NR
Methylene Chloride	5	2.5 U	2.5 U	1 U	2.5 U
N-Butylbenzene	5	2.5 U	2.5 U	0.2 UJ	2.5 U
N-Propylbenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	1.3 J	1.2 J	0.2 U	2.5 U
Sec-Butylbenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
Styrene	5	2.5 U	2.5 U	0.2 U	2.5 U
T-Butylbenzene	5	2.5 U	2.5 U	0.2 U	2.5 U
Tert-Butyl Alcohol	NS	NR	NR	0.98 U	NR
Tert-Butyl Methyl Ether	10	2.5 U	2.5 U	0.2 U	2.5 U
Tetrachloroethylene (PCE)	5	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	5	0.89 J	0.82 J	0.2 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U	0.5 U	NR	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U	2.5 U	0.2 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.2 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 UJ	2.5 UJ	NR	2.5 UJ
Trichloroethylene (TCE)	5	0.5 U	0.5 U	0.2 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	0.2 U	2.5 U
Vinyl Acetate	NS	5 U	5 U	NR	5 U
Vinyl Chloride	2	1 U	1 U	0.2 U	1 U
Xylenes, Total	NS	2.4 J	2.2 J	0.6 U	2.5 U
TPH - DRO (C10 through C44)	NS	518	469	NR	116
TPH - ORO (C28 through C-40)	NS	104	1 U	NR	23.5

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

Sample ID Lab Sample ID Date Sampled Unit Dilution Factor			SVE-INF_20240305 L2411776-01 3/05/2024 µg/m ³ 2.093	SVE-INT_20240305 L2411776-02 3/05/2024 µg/m ³ 2.092	SVE-EFF_20240305 L2411776-03 3/05/2024 µg/m ³ 2.1
Compound	DAR-1 AGC	DAR-1 SGC	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	5,000	9,000	2.29 U	2.28 U	2.29 U
1,1,2,2-Tetrachloroethane	16	NS	2.88 U	2.87 U	2.88 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	180,000	960,000	3.21 U	3.2 U	3.22 U
1,1,2-Trichloroethane	1.4	NS	2.29 U	2.28 U	2.29 U
1,1-Dichloroethane	0.63	NS	1.7 U	1.69 U	1.7 U
1,1-Dichloroethene	200	NS	1.66 U	1.66 U	1.67 U
1,2,4-Trichlorobenzene	NS	3,700	3.11 UJ	3.1 UJ	3.12 UJ
1,2,4-Trimethylbenzene	6	NS	2.06 U	2.05 U	2.06 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0017	NS	3.22 U	3.21 U	3.23 U
1,2-Dichlorobenzene	200	30,000	2.52 U	2.51 U	2.53 U
1,2-Dichloroethane	0.038	NS	1.7 U	1.69 U	1.7 U
1,2-Dichloropropane	4	NS	1.94 U	1.93 U	1.94 U
1,2-Dichlorotetrafluoroethane	17,000	NS	2.93 U	2.92 U	2.94 U
1,3,5-Trimethylbenzene (Mesitylene)	6	NS	2.06 U	2.05 U	2.06 U
1,3-Butadiene	0.033	NS	0.927 U	0.925 U	0.929 U
1,3-Dichlorobenzene	10	NS	2.52 U	2.51 U	2.53 U
1,4-Dichlorobenzene	0.09	NS	2.52 U	2.51 U	2.53 U
2,2,4-Trimethylpentane	3,300	NS	1.96 U	1.95 U	1.96 U
2-Hexanone	30	4,000	1.72 U	1.71 U	1.72 U
4-Ethyltoluene	NS	NS	2.06 U	2.05 U	2.06 U
Acetone	30,000	180,000	12.8	22.2	25.9
Allyl Chloride (3-Chloropropene)	1	600	1.31 U	1.31 U	1.31 U
Benzene	0.13	1,300	1.34 U	1.34 U	1.34 U
Benzyl Chloride	0.02	240	2.17 U	2.16 U	2.17 U
Bromodichloromethane	70	NS	2.81 U	2.8 U	2.81 U
Bromoform	0.91	NS	4.33 U	4.32 U	4.34 U
Bromomethane	NS	3,900	1.63 U	1.62 U	1.63 U
Carbon Disulfide	700	6,200	1.3 U	1.3 U	1.31 U
Carbon Tetrachloride	0.067	1,900	2.64 U	2.63 U	2.64 U
Chlorobenzene	60	NS	1.93 U	1.93 U	1.93 U
Chloroethane	NS	NS	1.11 U	1.1 U	1.11 U
Chloroform	14.7	150	2.05 U	2.04 U	2.05 U
Chloromethane	90	22,000	0.865 U	0.863 U	0.867 U
Cis-1,2-Dichloroethylene	63	NS	1.66 U	1.66 U	1.67 U
Cis-1,3-Dichloropropene	0.25	NS	1.9 U	1.9 U	1.91 U
Cyclohexane	6,000	NS	1.44 U	1.44 U	1.45 U
Dibromochloromethane	NS	NS	3.57 U	3.56 U	3.58 U
Dichlorodifluoromethane	12,000	NS	34.3	34.4	33.5
Ethanol	45,000	NS	28.5	24.9	26.2
Ethyl Acetate	3,400	NS	3.78 U	3.78 U	3.78 U
Ethylbenzene	1,000	NS	2.44	1.82 U	1.82 U
Hexachlorobutadiene	0.045	NS	4.47 U	4.46 U	4.48 U
Isopropanol	7,000	98,000	174	21.9	23.4
M,P-Xylenes	100	22,000	10.4	3.64 U	3.65 U
Methyl Ethyl Ketone (2-Butanone)	5,000	13,000	3.1 U	3.1 U	3.1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3,000	31,000	4.3 U	4.3 U	4.3 U
Methylene Chloride	60	14,000	3.65 U	3.65 U	3.65 U
Naphthalene	NS	NS	2.2 U	2.19 U	2.2 U
N-Heptane	3,900	210,000	1.72 U	1.71 U	1.72 U
N-Hexane	700	NS	1.78	4.93	5.71
O-Xylene (1,2-Dimethylbenzene)	100	22,000	5.86	1.82 U	1.82 U
Styrene	1,000	1,700	1.78 U	1.78 U	1.79 U
Tert-Butyl Alcohol	720	NS	NR	NR	NR
Tert-Butyl Methyl Ether	3.8	NS	1.51 U	1.51 U	1.51 U
Tetrachloroethylene (PCE)	4	300	24.4	2.83 U	4.71
Tetrahydrofuran	350	30,000	3.1 U	3.1 U	4.1
Toluene	5,000	37,000	4.64	14.8	12.7
Trans-1,2-Dichloroethene	63	NS	1.66 U	1.66 U	1.67 U
Trans-1,3-Dichloropropene	0.25	NS	1.9 U	1.9 U	1.91 U
Trichloroethylene (TCE)	0.2	14,000	2.25 U	2.25 U	2.26 U
Trichlorofluoromethane	5,000	9,000	101	71.4	68.6
Vinyl Bromide	3	NS	1.83 U	1.83 U	1.84 U
Vinyl Chloride	0.068	180,000	1.07 U	1.07 U	1.07 U

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

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

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

DEFINITIONS

- D** : Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
- J** : The reported value is estimated.
- NR** : Not reported.
- NS** : No standard.
- U** : The analyte was not detected at the indicated concentration.
- µg/L** : micrograms per liter
- µg/m³** : micrograms per cubic meter of air
- TPH - DRO** : Total Petroleum Hydrocarbons - Diesel Range Organics
- TPH - ORO** : Total Petroleum Hydrocarbons - Diesel Range Organics

STANDARDS

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

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

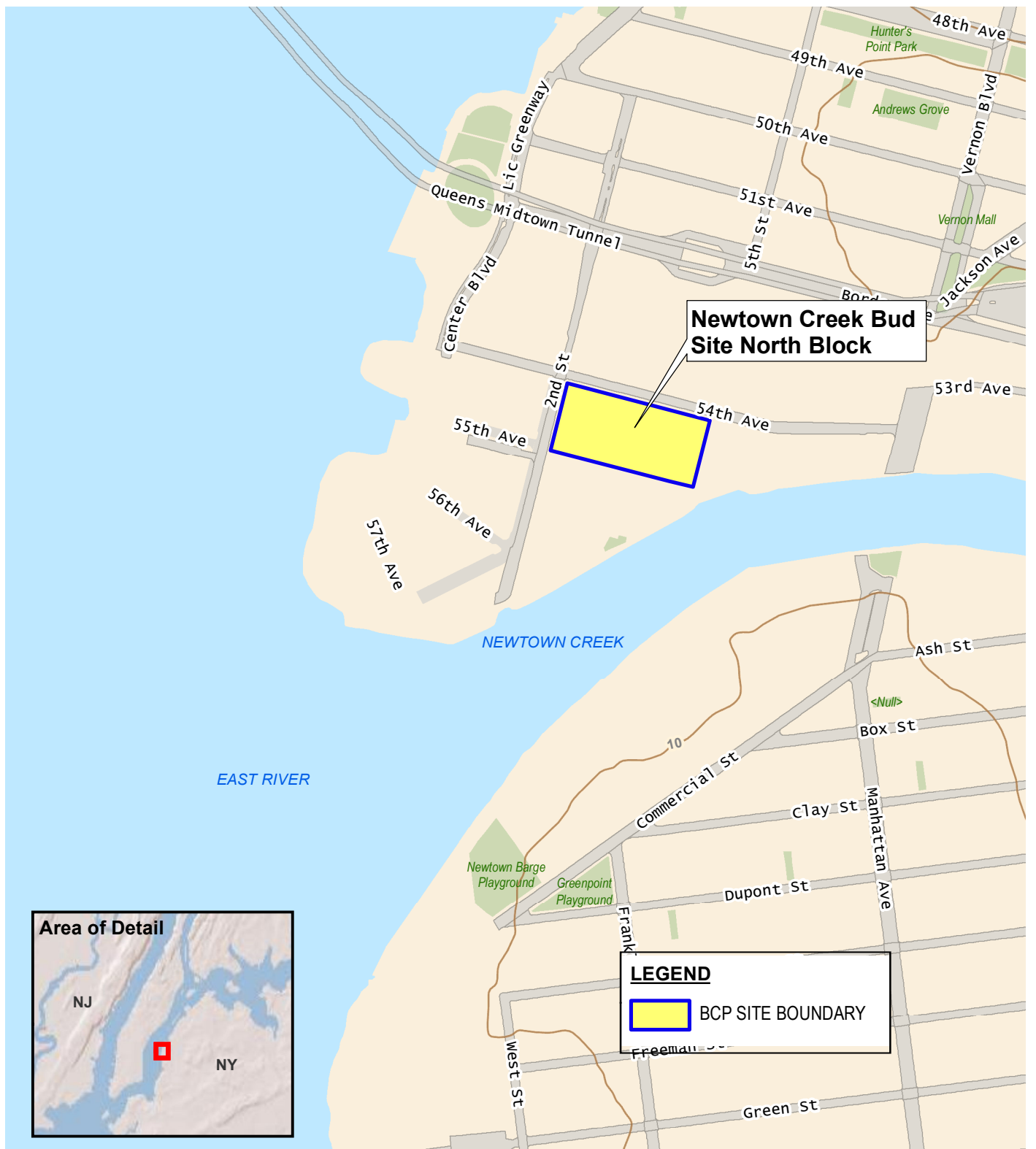
NYSDEC
Class GA
AWQSGVs : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational : Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

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

FIGURES



440 Park Avenue South, New York, NY 10016

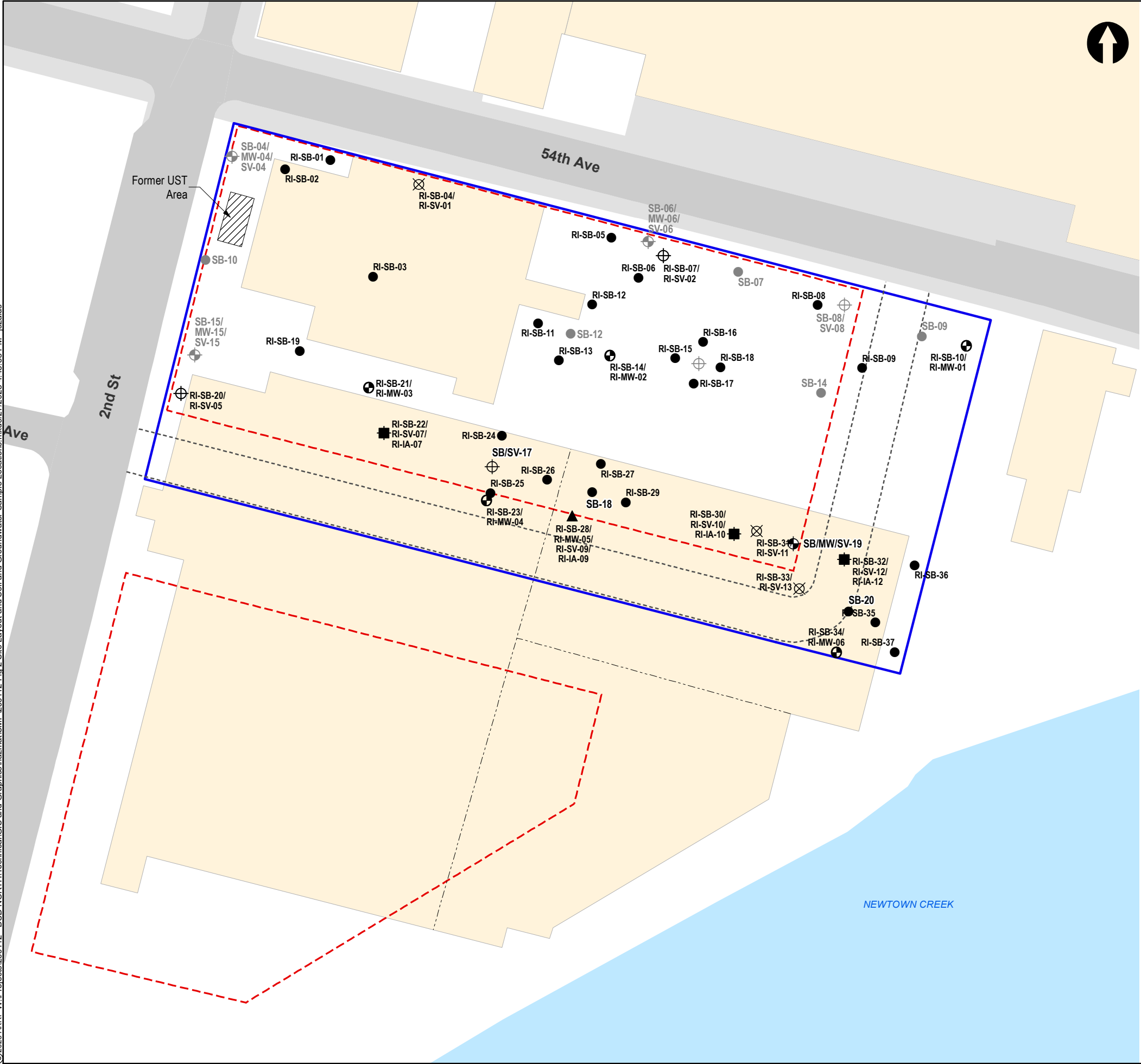
Newtown Creek Bud Site - North Block

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

BCP SITE LOCATION

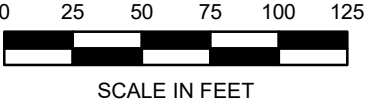
DATE	11/29/2021
PROJECT NO.	200112
FIGURE	1

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



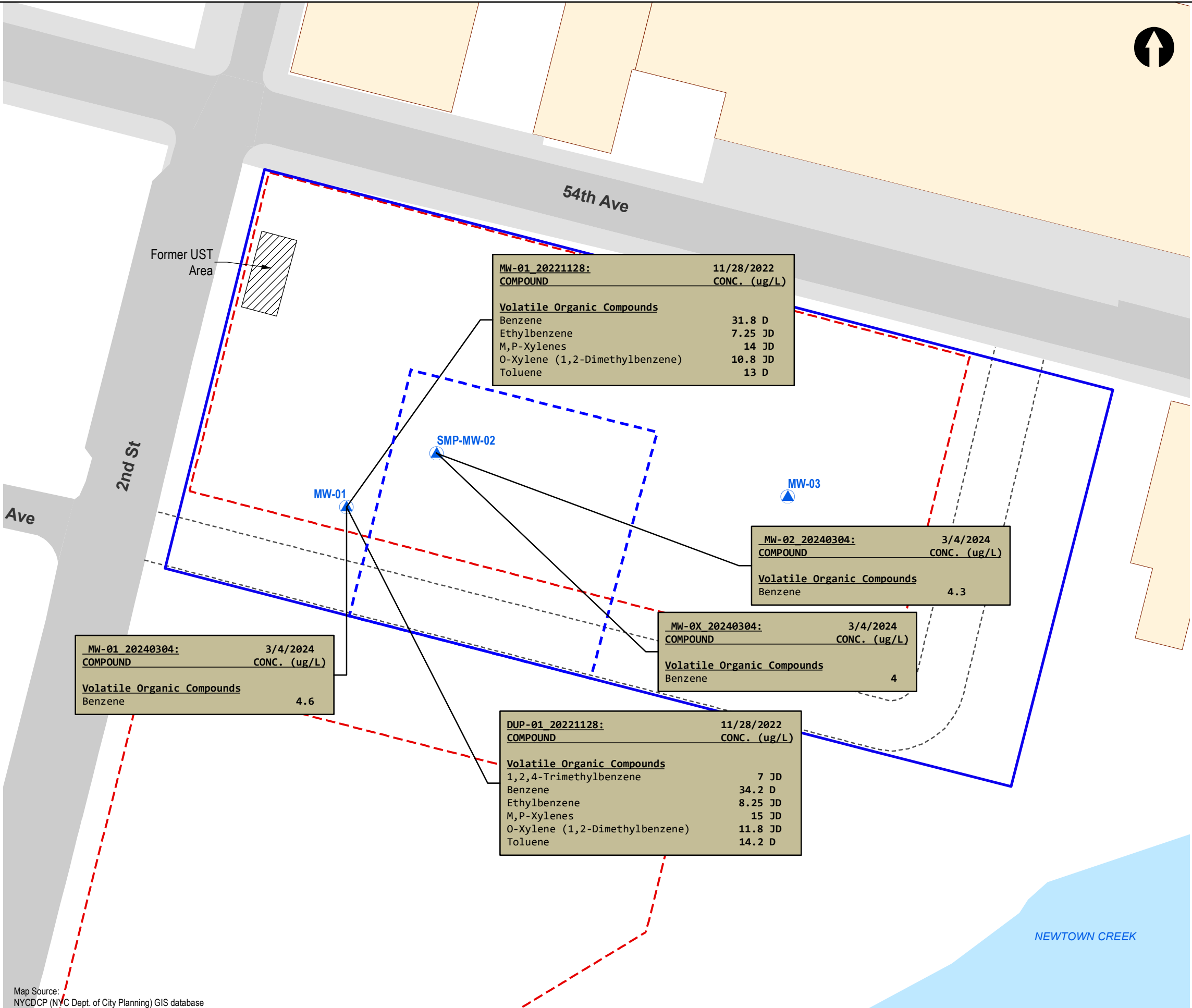
LEGEND

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



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

SITE LAYOUT AND SOIL AND GROUNDWATER SAMPLE LOCATIONS



LEGEND

- BCP SITE BOUNDARY
- GROUNDWATER MONITORING WELL LOCATION
- 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)

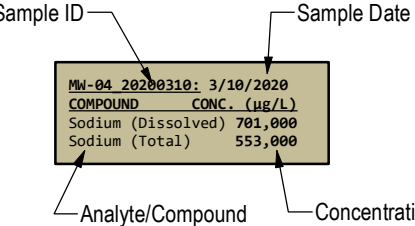
PFOA: Perfluorooctanoic acid
PFAS: Per- and polyfluoroalkyl substances

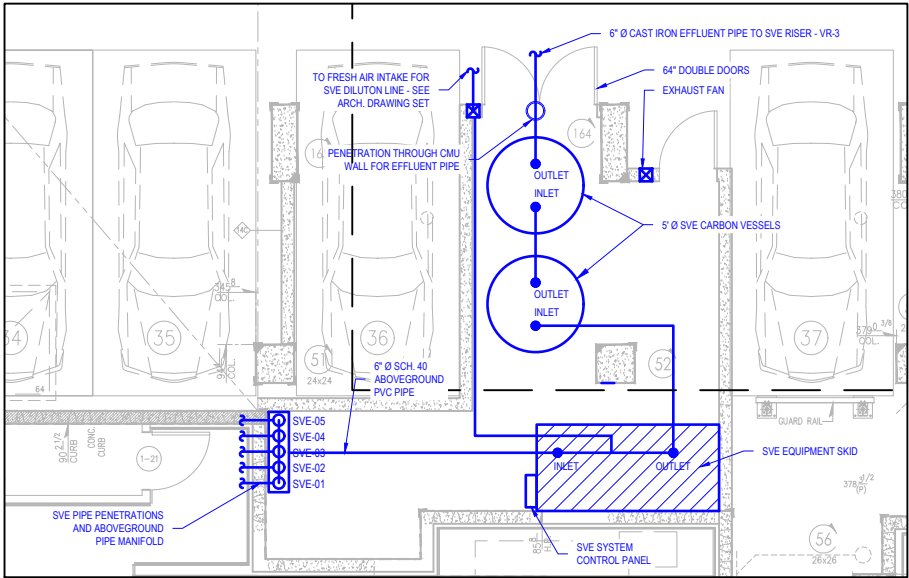
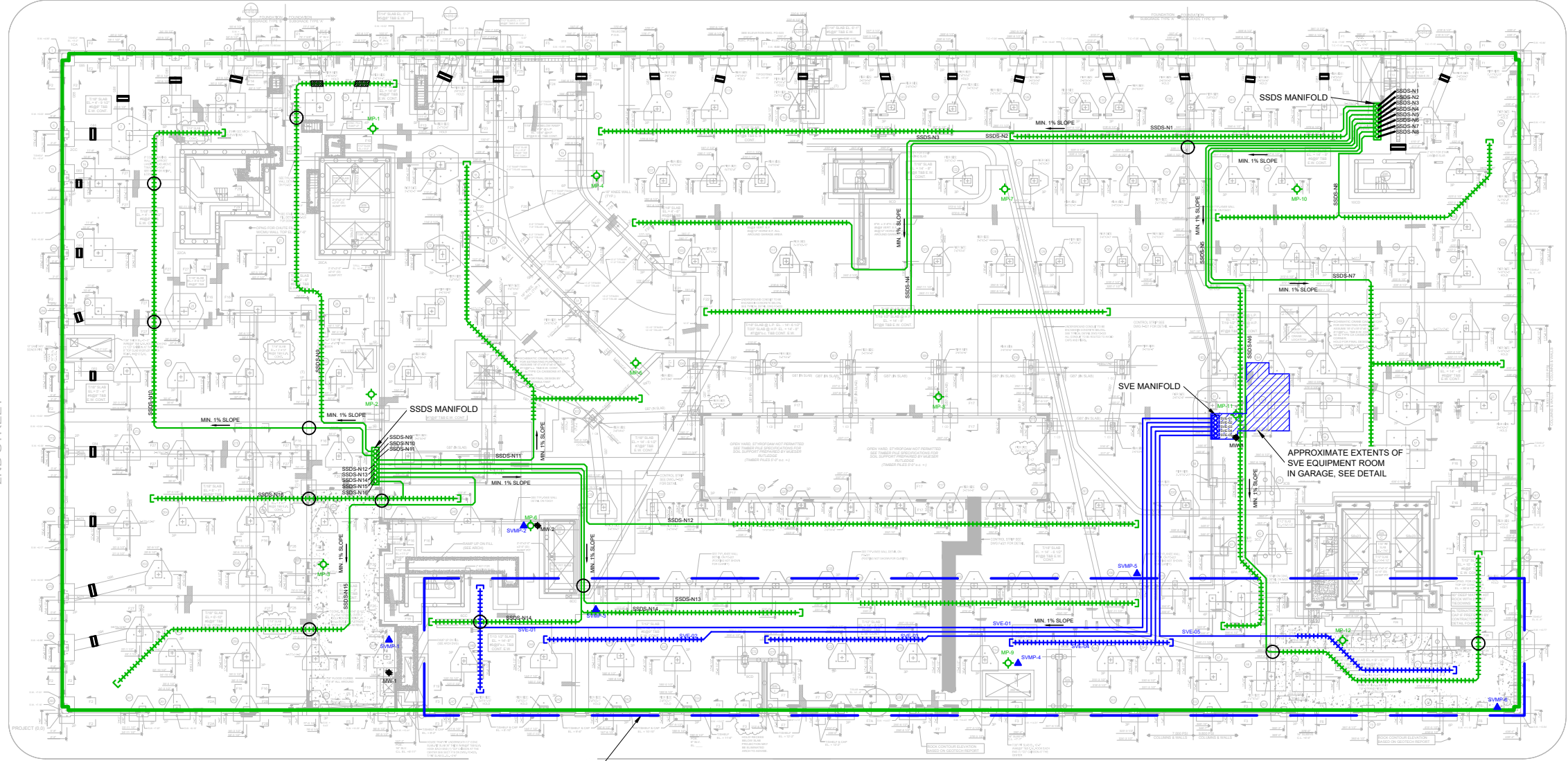
Only Exceedances of NYSDEC AWQSGVs are shown in bold font.

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-0X_20240304 is a blind duplicate of sample MW-02_20240304

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





ATTACMENT A
GROUNDWATER SAMPLING LOGS



Well Sampling Log

Job No: <u>20042</u>					Client: <u>TFCornerstone</u>				Well No: <u>MW-01</u>	
Project Location: <u>BVD North - 2-21 Main Drive</u>					Sampled By: <u>AZB/NJC</u>					
Date:					Sampling Time: <u>15:45</u>					
LEL at surface:										
PID at surface: <u>0.2</u>										
Total Depth: <u>15.10</u> ft. below top of casing					Water Column (WC): 0.00 feet				*= 0.163 * WC for 2" wells	
Depth to Water: <u>8.0</u> ft. below top of casing					Well Volume*: 0.00 gallons				*= 0.653 * WC for 4" wells	
Depth to Product: <u>NA</u> ft. below top of casing					Volume Purged: gallons				*= 1.469 * WC for 6" wells	
Depth to top of screen: <u>9</u> ft. below top of casing					Well Diam.: 2 inches				Target maximum flow rate is 100 ml/min	
Depth to bottom of screen: <u>19</u> ft. below top of casing					Purging Device (pump type):					
Approx. Pump Intake: <u>12-13</u> ft. below top of casing										
Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)	
<u>15:05</u>			<u>13.98</u>	<u>2.41</u>	<u>12.01</u>	<u>5.25</u>	<u>-156</u>	<u>~1000</u>	<u>petroleum-like odor</u>	
<u>15:10</u>			<u>13.25</u>	<u>2.26</u>	<u>11.09</u>	<u>5.25</u>	<u>-221</u>	<u>236</u>		
<u>15:15</u>			<u>13.26</u>	<u>2.26</u>	<u>11.13</u>	<u>5.24</u>	<u>-232</u>	<u>216</u>		
<u>15:20</u>			<u>13.36</u>	<u>2.55</u>	<u>10.86</u>	<u>5.28</u>	<u>-303</u>	<u>114</u>		
<u>15:25</u>			<u>13.47</u>	<u>2.71</u>	<u>10.92</u>	<u>5.33</u>	<u>-340</u>	<u>42.8</u>		
<u>15:30</u>			<u>13.59</u>	<u>2.84</u>	<u>10.81</u>	<u>5.43</u>	<u>-339</u>	<u>46.1</u>		
<u>15:35</u>			<u>13.66</u>	<u>2.87</u>	<u>10.82</u>	<u>5.39</u>	<u>-340</u>	<u>40.1</u>		
<u>15:40</u>			<u>13.72</u>	<u>2.91</u>	<u>10.64</u>	<u>5.39</u>	<u>-355</u>	<u>38.7</u>		
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.	
Groundwater samples analyzed for: <u>VOCs TPH</u>										

Page 1 of 1



Well No:	MU-03
*= 0.163 * WC for 2" wells	
*= 0.653 * WC for 4" wells	
*= 1.469 * WC for 6" wells	
Target maximum flow rate is 100 ml/min	

								purging and collect sample.
Groundwater samples analyzed for:								VOCs - TPH



Well Sampling Log

Job No: 100112					Client: TFC			Well No: MW-03	
Project Location: BUD NORTH 2-21 MOUNT DRIVE					Sampled By: AZB/NJC				
Date: 3/4/24					Sampling Time:				
LEL at surface:									
PID at surface: 0.0 ppm									
Total Depth: 19.90		ft. below top of casing		Water Column (WC): 5.65		0.00 feet		*= 0.163 * WC for 2" wells	
Depth to Water: 14.25		ft. below top of casing		Well Volume*: 0.92095		0.00 gallons		*= 0.653 * WC for 4" wells	
Depth to Product: NA		ft. below top of casing		Volume Purged: 10		gallons		*= 1.469 * WC for 6" wells	
Depth to top of screen: 13		ft. below top of casing		Well Diam.: 2 inches				Target maximum flow rate is 100 ml/min	
Depth to bottom of screen: 33		ft. below top of casing		Purging Device (pump type):					
Approx. Pump Intake: 17-18		ft. below top of casing		bladder pump					
Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
10:20			18.60	4.80	10.80	5.41	-84	~1000	well located within 6" of temporary pump for building water
10:25			18.65	4.75	10.83	5.44	-89	~1000	
10:30			18.69	4.70	10.85	5.45	-95	~1000	
10:35			18.77	4.68	10.79	5.47	-90	~1000	
10:40			18.68	4.66	10.89	5.47	-104	~1000	
10:45			18.67	4.63	10.87	5.47	-109	927	
10:50			18.65	4.59	10.82	5.40	-113	651	
10:55			18.64	4.57	10.87	5.42	-114	535	
11:00			18.65	4.56	10.82	5.41	-116	442	
11:05			18.65	4.54	10.82	5.43	-118	350	
11:10			18.64	4.52	10.80	5.44	-121	270	
11:15			18.65	4.53	10.79	5.43	-122	209	
11:20			18.65	4.52	10.71	5.42	-122	173	
11:25			18.67	4.49	10.71	5.41	-124	141	
11:30			18.66	4.45	10.70	5.41	-125	119	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

VOCs, TPH

ATTACMENT B
LABORATORY DATA REPORTS AND DUSRS



ANALYTICAL REPORT

Lab Number:	L2411621
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:	03/19/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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: L2411621
Report Date: 03/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2411621-01	MW-01_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 15:45	03/04/24
L2411621-02	MW-02_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 14:15	03/04/24
L2411621-03	MW-03_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 12:25	03/04/24
L2411621-04	MW-0X_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 12:00	03/04/24
L2411621-05	TB_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 00:00	03/04/24
L2411621-06	FB_20240304	WATER	2-10 54TH AVE QUEENS NY	03/04/24 12:00	03/04/24

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

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, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Case Narrative (continued)

Report Submission

March 19, 2024: This final report includes the results of all requested analyses.

March 08, 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.

Volatile Organics

L2411621-01 and WG1893843-7: The pH was greater than two; however, the sample was analyzed within the method required holding time.

Diesel Range & Oil Range Organics

L2411621-01RE, -02RE, -03RE, -04RE, and -06RE: The sample was re-extracted with the method required holding time exceeded.

The WG1892799-2 LCS recoveries, associated with L2411621-01, -02, -03, -04, and -06, were outside the acceptance criteria for individual target compounds; however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all results are considered to have a potentially low bias for decane (C10) (29%) and dodecane (C12) (41%).

The WG1892799-3 LCSD recoveries, associated with L2411621-01, -02, -03, -04, and -06, were outside the acceptance criteria for nonane (C9) (26%/49%); however, re-extraction outside of holding time achieved similar results; nonane (C9) (46%). The results of both extractions are reported; however, all results are considered to have a potentially low bias for nonane (C9) (49%).

The WG1892799-2/-3 LCS/LCSD RPD(s), associated with L2411621-0, -02, -03, -04, and -06, are above the acceptance criteria for nonane (C9) (61%), decane (C10) (64%) and dodecane (C12) (51%).

The WG1896155-2/-3 LCS/LCSD RPD(s), associated with L2411621-01RE, -02RE, -03RE, -04RE, and -06RE are above the acceptance criteria for nonane (C9) (47%) and decane (C10) (41%).

The WG1896155-4/-5 MS/MSD recoveries, performed on L2411621-03RE, are outside the acceptance criteria

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Case Narrative (continued)

for nonane (C9) (0%).

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

Authorized Signature:



Kelly O'Neill

Title: Technical Director/Representative

Date: 03/19/24

ORGANICS

VOLATILES

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-01
 Client ID: MW-01_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 15:45
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 12:16
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.6		ug/l	0.50	0.16	1
Toluene	1.0	J	ug/l	2.5	0.70	1
Ethylbenzene	1.2	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-01

Date Collected: 03/04/24 15:45

Client ID: MW-01_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	1
p/m-Xylene	1.2	J	ug/l	2.5	0.70	1
o-Xylene	1.1	J	ug/l	2.5	0.70	1
Xylenes, Total	2.3	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	2.2	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	32		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-01

Date Collected: 03/04/24 15:45

Client ID: MW-01_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-02
 Client ID: MW-02_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 14:15
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 12:41
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.3		ug/l	0.50	0.16	1
Toluene	0.89	J	ug/l	2.5	0.70	1
Ethylbenzene	1.2	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-02

Date Collected: 03/04/24 14:15

Client ID: MW-02_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	1
p/m-Xylene	1.1	J	ug/l	2.5	0.70	1
o-Xylene	1.3	J	ug/l	2.5	0.70	1
Xylenes, Total	2.4	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	1.5	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	25		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-02

Date Collected: 03/04/24 14:15

Client ID: MW-02_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	1.3	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-03
 Client ID: MW-03_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:25
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 13:06
 Analyst: MCM

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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-03

Date Collected: 03/04/24 12:25

Client ID: MW-03_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-03

Date Collected: 03/04/24 12:25

Client ID: MW-03_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-04
 Client ID: MW-0X_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 13:30
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.0		ug/l	0.50	0.16	1
Toluene	0.82	J	ug/l	2.5	0.70	1
Ethylbenzene	1.1	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-04

Date Collected: 03/04/24 12:00

Client ID: MW-0X_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	1
p/m-Xylene	1.0	J	ug/l	2.5	0.70	1
o-Xylene	1.2	J	ug/l	2.5	0.70	1
Xylenes, Total	2.2	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	1.2	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	23		ug/l	2.5	0.70	1

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-04

Date Collected: 03/04/24 12:00

Client ID: MW-0X_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	1.2	J	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	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: BUD NORTH

Lab Number: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-05
 Client ID: TB_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 00:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 13:55
 Analyst: MCM

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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-05

Date Collected: 03/04/24 00:00

Client ID: TB_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-05

Date Collected: 03/04/24 00:00

Client ID: TB_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-06
 Client ID: FB_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/06/24 14:20
 Analyst: MCM

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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-06

Date Collected: 03/04/24 12:00

Client ID: FB_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	0.70	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: L2411621

Project Number: 200112

Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2411621-06

Date Collected: 03/04/24 12:00

Client ID: FB_20240304

Date Received: 03/04/24

Sample Location: 2-10 54TH AVE QUEENS 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	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/06/24 09:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1893843-5					
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: L2411621
Report Date: 03/19/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/06/24 09:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1893843-5					
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	0.70
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: L2411621
Report Date: 03/19/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/06/24 09:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1893843-5					
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	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1893843-3 WG1893843-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	80		81		63-130	1		20
1,1,2-Trichloroethane	81		94		70-130	15		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	97		98		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	89		92		67-130	3		20
trans-1,3-Dichloropropene	83		84		70-130	1		20
cis-1,3-Dichloropropene	94		93		70-130	1		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	79		84		54-136	6		20
1,1,2,2-Tetrachloroethane	92		96		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	98		100		70-130	2		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	54		56		39-139	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1893843-3 WG1893843-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	93		94		70-130	1		20
1,2-Dichlorobenzene	93		95		70-130	2		20
1,3-Dichlorobenzene	95		98		70-130	3		20
1,4-Dichlorobenzene	94		97		70-130	3		20
Methyl tert butyl ether	97		98		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	91		93		64-130	2		20
Acrylonitrile	110		110		70-130	0		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	100		100		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	90		89		63-138	1		20
Vinyl acetate	120		130		70-130	8		20
4-Methyl-2-pentanone	92		91		59-130	1		20
2-Hexanone	86		86		57-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1893843-3 WG1893843-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	89		91		70-130	2		20
1,3-Dichloropropane	93		95		70-130	2		20
1,1,1,2-Tetrachloroethane	86		87		64-130	1		20
Bromobenzene	94		100		70-130	6		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	94		99		70-130	5		20
p-Chlorotoluene	93		97		70-130	4		20
1,2-Dibromo-3-chloropropane	74		77		41-144	4		20
Hexachlorobutadiene	120		130		63-130	8		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	88		90		70-130	2		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	91		94		64-130	3		20
1,2,4-Trimethylbenzene	92		95		70-130	3		20
1,4-Dioxane	104		94		56-162	10		20
p-Diethylbenzene	94		97		70-130	3		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1893843-3 WG1893843-4								
p-Ethyltoluene	96		100		70-130	4		20
1,2,4,5-Tetramethylbenzene	95		98		70-130	3		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	70		73		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	105		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1893843-6 WG1893843-7 QC Sample: L2411621-03 Client ID: MW-03_20240304												
Methylene chloride	ND	10	9.8	98		9.7	97		70-130	1		20
1,1-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
Chloroform	ND	10	9.6	96		9.6	96		70-130	0		20
Carbon tetrachloride	ND	10	11	110		10	100		63-132	10		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	8.0	80		8.1	81		63-130	1		20
1,1,2-Trichloroethane	ND	10	9.2	92		8.4	84		70-130	9		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	9.4	94		9.4	94		75-130	0		20
Trichlorofluoromethane	ND	10	12	120		11	110		62-150	9		20
1,2-Dichloroethane	ND	10	10	100		11	110		70-130	10		20
1,1,1-Trichloroethane	ND	10	11	110		10	100		67-130	10		20
Bromodichloromethane	ND	10	9.2	92		9.1	91		67-130	1		20
trans-1,3-Dichloropropene	ND	10	7.8	78		8.0	80		70-130	3		20
cis-1,3-Dichloropropene	ND	10	8.8	88		8.8	88		70-130	0		20
1,1-Dichloropropene	ND	10	11	110		10	100		70-130	10		20
Bromoform	ND	10	7.9	79		8.0	80		54-136	1		20
1,1,2,2-Tetrachloroethane	ND	10	9.5	95		9.5	95		67-130	0		20
Benzene	ND	10	10	100		9.3	93		70-130	7		20
Toluene	ND	10	9.8	98		9.7	97		70-130	1		20
Ethylbenzene	ND	10	10	100		9.8	98		70-130	2		20
Chloromethane	ND	10	10	100		10	100		64-130	0		20
Bromomethane	ND	10	2.03	20	Q	2.7	27	Q	39-139	30	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1893843-6 WG1893843-7 QC Sample: L2411621-03 Client ID: MW-03_20240304												
Vinyl chloride	ND	10	11	110		11	110		55-140	0		20
Chloroethane	ND	10	11	110		11	110		55-138	0		20
1,1-Dichloroethene	ND	10	11	110		11	110		61-145	0		20
trans-1,2-Dichloroethene	ND	10	10	100		10	100		70-130	0		20
Trichloroethene	ND	10	9.5	95		9.3	93		70-130	2		20
1,2-Dichlorobenzene	ND	10	9.4	94		9.3	93		70-130	1		20
1,3-Dichlorobenzene	ND	10	9.5	95		9.2	92		70-130	3		20
1,4-Dichlorobenzene	ND	10	9.2	92		9.2	92		70-130	0		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	19	95		19	95		70-130	0		20
cis-1,2-Dichloroethene	ND	10	10	100		10	100		70-130	0		20
Dibromomethane	ND	10	9.4	94		9.7	97		70-130	3		20
1,2,3-Trichloropropane	ND	10	9.0	90		9.1	91		64-130	1		20
Acrylonitrile	ND	10	11	110		11	110		70-130	0		20
Styrene	ND	20	19	95		19	95		70-130	0		20
Dichlorodifluoromethane	ND	10	11	110		10	100		36-147	10		20
Acetone	ND	10	12	120		12	120		58-148	0		20
Carbon disulfide	ND	10	11	110		11	110		51-130	0		20
2-Butanone	ND	10	9.9	99		10	100		63-138	1		20
Vinyl acetate	ND	10	13	130		13	130		70-130	0		20
4-Methyl-2-pentanone	ND	10	9.6	96		9.6	96		59-130	0		20
2-Hexanone	ND	10	9.0	90		9.2	92		57-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1893843-6 WG1893843-7 QC Sample: L2411621-03 Client ID: MW-03_20240304												
Bromochloromethane	ND	10	9.9	99		10	100		70-130	1		20
2,2-Dichloropropane	ND	10	9.2	92		8.7	87		63-133	6		20
1,2-Dibromoethane	ND	10	8.7	87		9.0	90		70-130	3		20
1,3-Dichloropropane	ND	10	9.2	92		9.4	94		70-130	2		20
1,1,1,2-Tetrachloroethane	ND	10	8.4	84		8.6	86		64-130	2		20
Bromobenzene	ND	10	9.5	95		9.6	96		70-130	1		20
n-Butylbenzene	ND	10	9.8	98		9.3	93		53-136	5		20
sec-Butylbenzene	ND	10	10	100		9.8	98		70-130	2		20
tert-Butylbenzene	ND	10	9.9	99		9.4	94		70-130	5		20
o-Chlorotoluene	ND	10	11	110		11	110		70-130	0		20
p-Chlorotoluene	ND	10	9.3	93		9.0	90		70-130	3		20
1,2-Dibromo-3-chloropropane	ND	10	8.1	81		7.8	78		41-144	4		20
Hexachlorobutadiene	ND	10	12	120		11	110		63-130	9		20
Isopropylbenzene	ND	10	10	100		9.7	97		70-130	3		20
p-Isopropyltoluene	ND	10	9.5	95		9.2	92		70-130	3		20
Naphthalene	ND	10	9.1	91		9.2	92		70-130	1		20
n-Propylbenzene	ND	10	10	100		9.6	96		69-130	4		20
1,2,3-Trichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,2,4-Trichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3,5-Trimethylbenzene	ND	10	9.0	90		8.7	87		64-130	3		20
1,2,4-Trimethylbenzene	ND	10	9.0	90		8.8	88		70-130	2		20
1,4-Dioxane	ND	500	490	98		480	96		56-162	2		20
p-Diethylbenzene	ND	10	9.1	91		8.8	88		70-130	3		20

Matrix Spike Analysis*Batch Quality Control***Project Name:** BUD NORTH**Project Number:** 200112**Lab Number:** L2411621**Report Date:** 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1893843-6 WG1893843-7 QC Sample: L2411621-03 Client ID: MW-03_20240304												
p-Ethyltoluene	ND	10	9.4	94		9.1	91		70-130	3		20
1,2,4,5-Tetramethylbenzene	ND	10	9.5	95		9.2	92		70-130	3		20
Ethyl ether	ND	10	10	100		10	100		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	6.8	68	Q	6.8	68	Q	70-130	0		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		111		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	105		103		70-130
Toluene-d8	100		101		70-130

PETROLEUM HYDROCARBONS

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-01
 Client ID: MW-01_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 15:45
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/12/24 18:17
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/06/24 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	642		ug/l	62.3	10.5	1
DRO (C10-C28)	438		ug/l	56.6	18.1	1
ORO (C28-C40)	144		ug/l	20.8	3.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		50-130
d50-Tetracosane	98		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-01 RE
 Client ID: MW-01_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 15:45
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/16/24 09:10
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/14/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	404		ug/l	63.5	10.7	1
DRO (C10-C28)	401		ug/l	57.7	18.5	1
ORO (C28-C40)	41.9		ug/l	21.2	3.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		50-130
d50-Tetracosane	94		50-130

Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411621**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-02
 Client ID: MW-02_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 14:15
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/12/24 19:46
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/06/24 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	653		ug/l	64.7	10.9	1
DRO (C10-C28)	518		ug/l	58.8	18.8	1
ORO (C28-C40)	104		ug/l	21.6	3.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	98		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-02 RE
 Client ID: MW-02_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 14:15
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/16/24 10:38
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/14/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	435		ug/l	64.7	10.9	1
DRO (C10-C28)	439		ug/l	58.8	18.8	1
ORO (C28-C40)	26.6		ug/l	21.6	3.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	94		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-03
 Client ID: MW-03_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:25
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/12/24 21:14
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/06/24 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	129		ug/l	62.3	10.5	1
DRO (C10-C28)	116		ug/l	56.6	18.1	1
ORO (C28-C40)	23.5		ug/l	20.8	3.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	93		50-130
d50-Tetracosane	95		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-03 RE
 Client ID: MW-03_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:25
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/16/24 12:05
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/14/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	66.6		ug/l	63.5	10.7	1
DRO (C10-C28)	88.2		ug/l	57.7	18.5	1
ORO (C28-C40)	ND		ug/l	21.2	3.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		50-130
d50-Tetracosane	97		50-130

Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411621**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-04
 Client ID: MW-0X_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/13/24 01:40
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/06/24 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	402		ug/l	63.5	10.7	1
DRO (C10-C28)	469		ug/l	57.7	18.5	1
ORO (C28-C40)	ND		ug/l	21.2	3.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		50-130
d50-Tetracosane	99		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-04 RE
 Client ID: MW-0X_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/16/24 16:27
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/14/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel/Other Range Organics by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	444		ug/l	64.7	10.9	1
DRO (C10-C28)	469		ug/l	58.8	18.8	1
ORO (C28-C40)	23.7		ug/l	21.6	3.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	94		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-06
 Client ID: FB_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/13/24 03:08
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/06/24 10:14

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	63.5	10.7	1
DRO (C10-C28)	29.5	J	ug/l	57.7	18.5	1
ORO (C28-C40)	ND		ug/l	21.2	3.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	93		50-130
d50-Tetracosane	94		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**SAMPLE RESULTS**

Lab ID: L2411621-06 RE
 Client ID: FB_20240304
 Sample Location: 2-10 54TH AVE QUEENS NY

Date Collected: 03/04/24 12:00
 Date Received: 03/04/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 03/16/24 17:55
 Analyst: AMV

Extraction Method: EPA 3510C
 Extraction Date: 03/14/24 12:46

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	62.3	10.5	1
DRO (C10-C28)	24.7	J	ug/l	56.6	18.1	1
ORO (C28-C40)	ND		ug/l	20.8	3.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		50-130
d50-Tetracosane	95		50-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 03/11/24 20:12
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 03/06/24 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Diesel/Other Range Organics by GC-FID - Mansfield Lab for sample(s): 01-04,06 Batch: WG1892799-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		ug/l	33.0	5.56
DRO (C10-C28)	11.6	J	ug/l	30.0	9.60
ORO (C28-C40)	ND		ug/l	11.0	1.62

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	97		50-130

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 03/16/24 03:20
Analyst: AMV

Extraction Method: EPA 3510C
Extraction Date: 03/14/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Diesel/Other Range Organics by GC-FID - Mansfield Lab for sample(s): 01-04,06 Batch: WG1896155-1					
Total Petroleum Hydrocarbons (C9-C44)	6.13	J	ug/l	33.0	5.56
DRO (C10-C28)	15.2	J	ug/l	30.0	9.60
ORO (C28-C40)	ND		ug/l	11.0	1.62

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		50-130
d50-Tetracosane	93		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Associated sample(s): 01-04,06 Batch: WG1892799-2 WG1892799-3								
Nonane (C9)	26	Q	49	Q	50-130	61	Q	30
Decane (C10)	29	Q	56		50-130	64	Q	30
Dodecane (C12)	41	Q	69		50-130	51	Q	30
Tetradecane (C14)	62		81		50-130	27		30
Hexadecane (C16)	86		95		50-130	10		30
Octadecane (C18)	95		101		50-130	6		30
Nonadecane (C19)	90		95		50-130	5		30
Eicosane (C20)	94		99		50-130	5		30
Docosane (C22)	91		96		50-130	5		30
Tetracosane (C24)	96		101		50-130	5		30
Hexacosane (C26)	94		99		50-130	5		30
Octacosane (C28)	93		98		50-130	5		30
triacontane (C30)	95		99		50-130	4		30
Hexatriacontane (C36)	85		88		50-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	96		100		50-130
d50-Tetracosane	97		101		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Associated sample(s): 01-04,06 Batch: WG1896155-2 WG1896155-3								
Nonane (C9)	74		46	Q	50-130	47	Q	30
Decane (C10)	83		55		50-130	41	Q	30
Dodecane (C12)	91		67		50-130	30		30
Tetradecane (C14)	92		86		50-130	7		30
Hexadecane (C16)	100		103		50-130	3		30
Octadecane (C18)	105		109		50-130	4		30
Nonadecane (C19)	100		103		50-130	3		30
Eicosane (C20)	101		104		50-130	3		30
Docosane (C22)	99		102		50-130	3		30
Tetracosane (C24)	105		108		50-130	3		30
Hexacosane (C26)	99		102		50-130	3		30
Octacosane (C28)	103		106		50-130	3		30
Triacontane (C30)	100		103		50-130	3		30
Hexatriacontane (C36)	91		94		50-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	98		101		50-130
d50-Tetracosane	97		100		50-130

Matrix Spike Analysis **Batch Quality Control**

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Client ID: MW-03_20240304												
Associated sample(s): 01-04,06 QC Batch ID: WG1892799-4 WG1892799-5 QC Sample: L2411621-03												
Nonane (C9)	ND	192	134.7538	70		138.7113	74		50-150	3		30
Decane (C10)	ND	192	154.8788	80		159.4434	84		50-150	3		30
Dodecane (C12)	ND	192	172.26923	90		181.80377	96		50-150	5		30
Tetradecane (C14)	ND	192	169.95000	88		182.05660	96		50-150	7		30
Hexadecane (C16)	ND	192	181.9135	94		195.1755	103		50-150	7		30
Octadecane (C18)	ND	192	189.8442	99		203.5642	108		50-150	7		30
Nonadecane (C19)	ND	192	200.2096	104		228.8113	121		50-150	13		30
Eicosane (C20)	ND	192	184.8750	96		197.8509	105		50-150	7		30
Docosane (C22)	ND	192	179.1808	93		191.4755	101		50-150	7		30
Tetracosane (C24)	ND	192	186.6846	97		199.5208	106		50-150	7		30
Hexacosane (C26)	ND	192	183.8404	96		196.6132	104		50-150	7		30
Octacosane (C28)	9.001887	192	187.0058	92		198.8170	101		50-150	6		30
Triacontane (C30)	ND	192	183.8269	96		196.2358	104		50-150	7		30
Hexatriacontane (C36)	ND	192	137.5788	72		154.3038	82		50-150	11		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
d50-Tetracosane	99		108		50-130
o-Terphenyl	94		98		50-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411621

Report Date: 03/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Diesel/Other Range Organics by GC-FID - Mansfield Lab Client ID: MW-03_20240304												
Associated sample(s): 01-04,06 QC Batch ID: WG1896155-4 WG1896155-5 QC Sample: L2411621-03												
Nonane (C9)	26.09808	39.2	20.40784	0	Q	16.36923	0	Q	50-150	22		30
Decane (C10)	ND	39.2	23.88431	61		19.12885	50		50-150	22		30
Dodecane (C12)	ND	39.2	28.194118	72		23.315385	61		50-150	19		30
Tetradecane (C14)	ND	39.2	33.827451	86		30.509615	79		50-150	10		30
Hexadecane (C16)	ND	39.2	39.32941	100		38.31538	100		50-150	3		30
Octadecane (C18)	ND	39.2	42.20000	108		41.56538	108		50-150	2		30
Nonadecane (C19)	ND	39.2	39.75490	101		39.18077	102		50-150	1		30
Eicosane (C20)	ND	39.2	40.32941	103		39.79615	103		50-150	1		30
Docosane (C22)	ND	39.2	39.30000	100		38.71923	101		50-150	1		30
Tetracosane (C24)	ND	39.2	41.78235	106		41.31538	107		50-150	1		30
Hexacosane (C26)	ND	39.2	39.34706	100		38.93462	101		50-150	1		30
Octacosane (C28)	2.026923	39.2	40.86863	99		40.44231	100		50-150	1		30
Triacontane (C30)	ND	39.2	39.83529	102		39.42500	102		50-150	1		30
Hexatriacontane (C36)	ND	39.2	36.13333	92		35.80577	93		50-150	1		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
d50-Tetracosane	98		98		50-130
o-Terphenyl	99		99		50-130

Project Name: BUD NORTH**Lab Number:** L2411621**Project Number:** 200112**Report Date:** 03/19/24**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(*)
L2411621-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-01D	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-01E	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-02D	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-02E	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03A1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03A2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03B1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03B2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03C1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03C2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-03D	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-03D1	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-03D2	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)

Project Name: BUD NORTH
Project Number: 200112

Serial_No:03192417:43
Lab Number: L2411621
Report Date: 03/19/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2411621-03E	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-03E1	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-03E2	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2411621-04D	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-04E	Amber 500ml unpreserved	A	7	7	2.6	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-05A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2411621-05B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2411621-06A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2411621-06B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2411621-06C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2411621-06D	Amber 500ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)
L2411621-06E	Amber 500ml unpreserved	B	7	7	3.3	Y	Absent		A2-TPHDRO/ORO(7)

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

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
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

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
Project Number: 200112

Lab Number: L2411621
Report Date: 03/19/24

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

Published Date: 6/16/2023 4:52:28 PM

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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, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; 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.

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, SM4500CI-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, SM9221E, 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.

April 1, 2024

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

Re: Data Usability Summary Report – Alpha Analytical – L2411621

Dear Mr. Diggins:

The evaluation of the 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. L2411621 has been completed. The following samples were reported:

MW-01_20240304	MW-02_20240304
MW-03_20240304	MW-0X_20240304
TB_20240304	FB_20240304

Analyses were performed in accordance with SW846 method 8260D (Volatile Organics) and method 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 National Functional Guidelines for Data Review 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

Based on the data review effort, results are usable, with the following qualifications:

Volatile Organics

- The results for chlorodibromomethane, bromoform, trans-1,4-dichloro-2-butene and 1,2-dibromo-3-chloropropane in all samples are qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.
- The results for bromoform in all samples are qualified as estimated (UJ) due to low recovery in the laboratory control sample (LCS) and LCS duplicate (LCSD).
- The results for bromomethane and trans-1,4-dichloro-2-butene in MW-01_20240304, MW-02_20240304, MW-03_20240304 and MW-0X_20240304 are qualified as estimated (UJ) due to recoveries in the matrix spike (MS) and MS duplicate (MSD).

Total Petroleum Hydrocarbons

- The result for DRO (C10-C28) in the reanalysis of FB_20240304 is qualified as not detected (U) at the reporting limit due to method blank contamination. The result for DRO (C10-C28) in the original analysis of MW-03_20240304 is qualified as not detected (U) at the reporting limit due to field blank contamination. The TPH concentration in MW-03_20240304 is qualified as estimated (J+) with a potential high bias due to the contribution of DRO.
- The results for DRO and TPH in all samples (original analysis) are qualified as estimated (J, UJ) due to low recoveries in the LCS and LCSD and high relative percent difference (RPD) between the LCS and LCSD.
- Results for DRO and TPH in MW-01_20240304, MW-02_20240304, MW-03_20240304 and MW-0X_20240304 are qualified as estimated (J, UJ) due to imprecision between field duplicate samples.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody records is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included as Attachment C.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times

- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
 - Method blanks
 - Field blanks
 - Trip Blanks
 - Surrogate recoveries
 - LCS/LCSD recoveries
 - MS/MSD recoveries
 - Internal standards
 - Serial dilutions
 - Duplicates
- Instrument related quality control data:
 - Instrument tunes
 - Calibration summaries
 - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

When a sample result is qualified estimated 'J' in addition to estimated 'J+' or 'J-', the 'J' qualifier takes precedence, and the bias is indeterminate.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

It should be noted that the electronic data deliverable (EDD) and the laboratory data deliverable identify total petroleum hydrocarbon differently:

Data Deliverable	EDD
Total Petroleum Hydrocarbons (C9-C44)	DROD (C9-C44)

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 March 4, 2024. The samples were received on March 5, 2024. All samples were properly preserved and analyzed within method holding times. The samples were reanalyzed three days outside the hold time for total petroleum hydrocarbons (TPH) due to the low recoveries in the LCS and LCSD. It is recommended that the original TPH analysis for all samples is used. Refer to discussion in Section B.2.

A. Volatile Organics

1. Calibration

One initial calibration (IC) was reported and all relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients were acceptable. A second source initial calibration verification (ICV) standard was analyzed following the IC and all percent differences are acceptable. One continuing calibration verification (CCV) standard was analyzed and all RRFs and %Ds are acceptable with the following exceptions.

CCV	Analyte	%D
VOA122, 03/06/24 @07:47	Chlorodibromomethane	20.4
	Bromoform	20.7
	trans-1,4-Dichloro-2-butene	30.3
	1,2-Dibromo-3-chloropropane	26.8

In all instances, the percent difference represents a decrease in instrument sensitivity. The results for chlorodibromomethane, bromoform, trans-1,4-dichloro-2-butene and 1,2-dibromo-3-chloropropane in all samples are qualified as estimated (UJ) due to low response in the CCV.

2. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

One LCS/LCSD pair was analyzed in support of sample analysis. All percent recoveries (%R) and relative percent differences (RPDs) are acceptable (70-130%R, $RPD \leq 30$) with the exception of bromoform (54 / 56%R). The results for bromoform in all samples are qualified as estimated (UJ) due to low recovery in the LCS and LCSD. The potential for false negatives exists in the non-detect results.

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-03_20240304. All percent recoveries (%R) and relative percent differences (RPDs) are acceptable (70-130%R, $RPD < 30$) with the following exceptions:

Analyte	MS %R	MSD %R	MS/MSD RPD
Bromomethane	20	27	a
trans-1,4-Dichloro-2-butene	68	68	a

a-acceptable

The results for bromomethane and trans-1,4-dichloro-2-butene in MW-01_20240304, MW-02_20240304, MW-03_20240304 and MW-0X_20240304 are qualified as estimated (UJ) due to recoveries in the MS and MSD.

4. Field Duplicates

MW-0X_20240304 was submitted as a field duplicate of MW-02_20240304. Precision was assessed using an $RPD \leq 30$ for detections above the reporting limit. Precision between field duplicate samples is acceptable, as presented below. Results below the reporting limit are not evaluated.

Analyte	MW-02_20240304 (µg/L)	MW-0X_20240304 (µg/L)	RPD
Ethylbenzene	1.2 J	1.1 J	nc
Toluene	0.89 J	0.82 J	nc
Xylenes, Total	2.4 J	2.2 J	nc
Xylenes, M,P	1.1 J	1.0 J	nc
Benzene	4.3	4	7.2
Carbon Disulfide	1.5 J	1.2 J	nc
Naphthalene	25	23	8.3
o-Xylene	1.3 J	1.2 J	nc
1,2,4-Trimethylbenzene	1.3 J	1.2 J	nc

nc-not calculated

B. Total Petroleum Hydrocarbons

1. Blanks

The table below summarizes blank concentrations that impacted sample results.

Blank	Analyte	Conc (µg/L)	Affected Samples
MB 3/15/23 (reanalysis)	DRO (C10-C28)	15.2	FB_20240304
FB_20240304 (original analysis)		29.5	MW-03_20240304

The result for DRO (C10-C28) in the reanalysis of FB_20240304 and the original analysis of MW-03_20240304 are qualified as not detected (U) at the reporting limit because the sample concentration is less than five times the associated blank concentration. The TPH concentration in MW-03_20240304 is qualified as estimated (J+) with a potential high bias due to the contribution of DRO.

2. Laboratory Control Sample (LCS) / LCS Duplicate (LCSD)

Two LCS/LCSD pairs were analyzed in support of sample analysis. All percent recoveries (%R) and relative percent differences (RPDs) are acceptable ($70-130\%R$, $RPD \leq 30$) with the following exceptions:

Analyte	LCS %R	LCSD %R	LCS/LCSD RPD
WG1892799-2 and -3			
Nonane (C9)	26	49	61
Decane (C10)	29	56	64
Dodecane (C12)	41	69	52
WG1896155-2 and -3 (Re-extract)			
Nonane (C9)	a	45	47
Decane (C10)	a	55	41
Dodecane (C12)	a	67	30

a=acceptable

The samples were reanalyzed three days outside the hold time due to the low recoveries in the LCS and LCSD. Since the LCS and LCSD associated with the reanalysis also exhibited low recoveries, it is recommended that the original analysis for all samples is used. The validator marked the reanalysis for all samples as 'reportable – No' in the EDD. The results for DRO and TPH in all samples are qualified as estimated (J, UJ) due to low recoveries in the LCS and LCSD and high RPD between the LCS and LCSD.

3. Matrix Spike (MS) / MS Duplicate (MSD)

MS/MSD analyses were performed on MW-03_20240304. The MS/MSD recoveries and RPDs in the original analysis are quality control limits. MS/MSD analyses were also performed on MW-03_20240304 in the reanalysis batch, with nonane (C9), decane (C10) and dodecane (C12) recovery below the lower acceptance limit. As indicated above, the original analysis, which is within method holding time should be used. Sample results are not qualified based on low MS/MSD recoveries in the reanalysis.

4. Field Duplicates

MW-0X_20240304 was submitted as a field duplicate of MW-02_20240304. Precision was assessed using an $RPD \leq 30$. Results for DRO and TPH in MW-01_20240304, MW-02_20240304, MW-03_20240304 and MW-0X_20240304 are qualified as estimated (J, UJ) due to imprecision between field duplicate samples, as presented below.

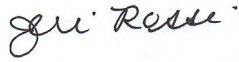
Analyte	MW-02_20240304 (µg/L)	MW-0X_20240304 (µg/L)	RPD
Total Petroleum Hydrocarbons (C9-C44)	653	402	48
DRO (C10-C28)	518	469	a
ORO (C28-C40)	104	21.2(U)	nc

a=acceptable

nc-not calculated

No other qualification of sample results was made. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

A handwritten signature in cursive script, reading "Jeri Rossi", written in black ink on a light-colored background.

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)

ATTACHMENT C

**SELECTED PAGES FROM DATA PACKAGE -
QC EXCEEDANCES AND VALIDATION ISSUES**

Laboratory Control Sample Summary

Form 3

Volatiles

Client : AKRF, Inc. Lab Number : L2411621
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1893843-3 Analysis Date : 03/06/24 07:47 File ID : V22240306A01
 LCSD Sample ID : WG1893843-4 Analysis Date : 03/06/24 08:11 File ID : V22240306A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	12	120	10	11	110	9	70-130	20
Chloroform	10	9.7	97	10	9.8	98	1	70-130	20
Carbon tetrachloride	10	10	100	10	10	100	0	63-132	20
1,2-Dichloropropane	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	10	8.0	80	10	8.1	81	1	63-130	20
1,1,2-Trichloroethane	10	8.1	81	10	9.4	94	15	70-130	20
Tetrachloroethene	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	10	9.7	97	10	9.8	98	1	75-130	20
Trichlorofluoromethane	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	8.9	89	10	9.2	92	3	67-130	20
trans-1,3-Dichloropropene	10	8.3	83	10	8.4	84	1	70-130	20
cis-1,3-Dichloropropene	10	9.4	94	10	9.3	93	1	70-130	20
1,1-Dichloropropene	10	10	100	10	10	100	0	70-130	20
Bromoform	10	7.9	79	10	8.4	84	6	54-136	20
1,1,2,2-Tetrachloroethane	10	9.2	92	10	9.6	96	4	67-130	20
Benzene	10	10	100	10	10	100	0	70-130	20
Toluene	10	9.8	98	10	10	100	2	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	5.4	54	10	5.6	56	4	39-139	20
Vinyl chloride	10	11	110	10	11	110	0	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-03_20240304
 Lab Sample ID : L2411621-03
 Matrix Spike : WG1893843-6
 Matrix Spike Dup : WG1893843-7

Lab Number : L2411621
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 03/06/24 13:06
 MS Analysis Date : 03/06/24 18:01
 MSD Analysis Date : 03/06/24 18:26

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit			
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R						
Bromomethane	ND	10	2.0J	20	Q	10	2.7	27	Q	30	Q	39-139	20
Vinyl chloride	ND	10	11	110		10	11	110		0		55-140	20
Chloroethane	ND	10	11	110		10	11	110		0		55-138	20
1,1-Dichloroethene	ND	10	11	110		10	11	110		0		61-145	20
trans-1,2-Dichloroethene	ND	10	10	100		10	10	100		0		70-130	20
Trichloroethene	ND	10	9.5	95		10	9.3	93		2		70-130	20
1,2-Dichlorobenzene	ND	10	9.4	94		10	9.3	93		1		70-130	20
1,3-Dichlorobenzene	ND	10	9.5	95		10	9.2	92		3		70-130	20
1,4-Dichlorobenzene	ND	10	9.2	92		10	9.2	92		0		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	19	95		20	19	95		0		70-130	20
cis-1,2-Dichloroethene	ND	10	10	100		10	10	100		0		70-130	20
Dibromomethane	ND	10	9.4	94		10	9.7	97		3		70-130	20
1,2,3-Trichloropropane	ND	10	9.0	90		10	9.1	91		1		64-130	20
Acrylonitrile	ND	10	11	110		10	11	110		0		70-130	20
Styrene	ND	20	19	95		20	19	95		0		70-130	20
Dichlorodifluoromethane	ND	10	11	110		10	10	100		10		36-147	20
Acetone	ND	10	12	120		10	12	120		0		58-148	20
Carbon disulfide	ND	10	11	110		10	11	110		0		51-130	20
2-Butanone	ND	10	9.9	99		10	10	100		1		63-138	20
Vinyl acetate	ND	10	13	130		10	13	130		0		70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Client Sample ID : MW-03_20240304
 Lab Sample ID : L2411621-03
 Matrix Spike : WG1893843-6
 Matrix Spike Dup : WG1893843-7

Lab Number : L2411621
 Project Number : 200112
 Matrix (Level) : WATER (LOW)
 Analysis Date : 03/06/24 13:06
 MS Analysis Date : 03/06/24 18:01
 MSD Analysis Date : 03/06/24 18:26

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
1,2,4-Trimethylbenzene	ND	10	9.0	90	10	8.8	88	2	70-130	20
1,4-Dioxane	ND	500	490	98	500	480	96	2	56-162	20
p-Diethylbenzene	ND	10	9.1	91	10	8.8	88	3	70-130	20
p-Ethyltoluene	ND	10	9.4	94	10	9.1	91	3	70-130	20
1,2,4,5-Tetramethylbenzene	ND	10	9.5	95	10	9.2	92	3	70-130	20
Ethyl ether	ND	10	10	100	10	10	100	0	59-134	20
trans-1,4-Dichloro-2-butene	ND	10	6.8	68 Q	10	6.8	68 Q	0	70-130	20



Calibration Verification Summary

Form 7

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : VOA122
 Lab File ID : V22240306A01
 Sample No : WG1893843-2
 Channel :

Lab Number : L2411621
 Project Number : 200112
 Calibration Date : 03/06/24 07:47
 Init. Calib. Date(s) : 01/22/24 01/23/24
 Init. Calib. Times : 22:47 22:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.171	0.153*	-	10.5	20	70	0
1,4-Dioxane	0.00081	0.00084*	-	-3.7	20	78	0
cis-1,3-Dichloropropene	0.179	0.168*	-	6.1	20	72	0
Chlorobenzene-d5	1	1	-	0	20	77	0
Toluene-d8	1.247	1.262	-	-1.2	20	79	0
Toluene	0.386	0.38	-	1.6	20	78	0
4-Methyl-2-pentanone	0.029	0.027*	-	6.9	20	72	0
Tetrachloroethene	0.164	0.178	-	-8.5	20	93	0
trans-1,3-Dichloropropene	0.184	0.154*	-	16.3	20	70	0
Ethyl methacrylate	0.122	0.1	-	18	20	65	0
1,1,2-Trichloroethane	0.089	0.072*	-	19.1	20	70	0
Chlorodibromomethane	0.142	0.113*	-	20.4*	20	68	0
1,3-Dichloropropane	0.17	0.158	-	7.1	20	78	0
1,2-Dibromoethane	0.101	0.09*	-	10.9	20	76	0
2-Hexanone	0.053	0.046	-	13.2	20	66	0
Chlorobenzene	0.447	0.433	-	3.1	20	76	0
Ethylbenzene	0.75	0.756	-	-0.8	20	78	0
1,1,1,2-Tetrachloroethane	0.151	0.129	-	14.6	20	72	0
p/m Xylene	0.297	0.296	-	0.3	20	76	0
o Xylene	0.287	0.278	-	3.1	20	73	0
Styrene	0.462	0.445	-	3.7	20	71	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Bromoform	0.145	0.115	-	20.7*	20	69	0
Isopropylbenzene	1.511	1.507	-	0.3	20	81	0
4-Bromofluorobenzene	0.919	0.883	-	3.9	20	75	0
Bromobenzene	0.359	0.339	-	5.6	20	75	0
n-Propylbenzene	1.719	1.723	-	-0.2	20	81	0
1,4-Dichlorobutane	0.354	0.361	-	-2	20	83	0
1,1,2,2-Tetrachloroethane	0.203	0.186*	-	8.4	20	78	0
4-Ethyltoluene	1.491	1.426	-	4.4	20	77	0
2-Chlorotoluene	1.028	0.969	-	5.7	20	74	0
1,3,5-Trimethylbenzene	1.251	1.14	-	8.9	20	72	0
1,2,3-Trichloropropane	0.167	0.152	-	9	20	76	0
trans-1,4-Dichloro-2-buten	0.076	0.053	-	30.3*	20	60	0
4-Chlorotoluene	1.096	1.02	-	6.9	20	74	0
tert-Butylbenzene	1.283	1.289	-	-0.5	20	84	0
1,2,4-Trimethylbenzene	1.4	1.294	-	7.6	20	73	0
sec-Butylbenzene	1.517	1.575	-	-3.8	20	88	0
p-Isopropyltoluene	1.358	1.326	-	2.4	20	79	0
1,3-Dichlorobenzene	0.718	0.68	-	5.3	20	75	0
1,4-Dichlorobenzene	0.704	0.66	-	6.2	20	75	0
p-Diethylbenzene	0.813	0.766	-	5.8	20	76	0
n-Butylbenzene	1.055	1.071	-	-1.5	20	83	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : VOA122
 Lab File ID : V22240306A01
 Sample No : WG1893843-2
 Channel :

Lab Number : L2411621
 Project Number : 200112
 Calibration Date : 03/06/24 07:47
 Init. Calib. Date(s) : 01/22/24 01/23/24
 Init. Calib. Times : 22:47 22:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichlorobenzene	0.636	0.593*	-	6.8	20	74	0
1,2,4,5-Tetramethylbenzene	1.117	1.06	-	5.1	20	78	0
1,2-Dibromo-3-chloropropan	0.041	0.03	-	26.8*	20	60	0
1,3,5-Trichlorobenzene	0.428	0.46	-	-7.5	20	87	0
Hexachlorobutadiene	0.14	0.173	-	-23.6*	20	110	0
1,2,4-Trichlorobenzene	0.376	0.392*	-	-4.3	20	84	0
Naphthalene	0.875	0.766	-	12.5	20	69	0
1,2,3-Trichlorobenzene	0.324	0.342*	-	-5.6	20	83	0

* Value outside of QC limits.



Laboratory Control Sample Summary

Form 3

Petroleum

Client : AKRF, Inc. Lab Number : L2411621
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1892799-2 Analysis Date : 03/12/24 00:37 File ID : F1703112419
 LCSD Sample ID : WG1892799-3 Analysis Date : 03/12/24 02:05 File ID : F1703112421

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Nonane (C9)	20	5.128000	26 Q	20	9.854000	49 Q	61 Q	50-130	30
Decane (C10)	20	5.830000	29 Q	20	11.24700	56	64 Q	50-130	30
Dodecane (C12)	20	8.1470000	41 Q	20	13.834000	69	51 Q	50-130	30
Tetradecane (C14)	20	12.420000	62	20	16.211000	81	27	50-130	30
Hexadecane (C16)	20	17.23500	86	20	19.04300	95	10	50-130	30
Octadecane (C18)	20	18.98200	95	20	20.18200	101	6	50-130	30
Nonadecane (C19)	20	18.04400	90	20	19.06700	95	5	50-130	30
Eicosane (C20)	20	18.90100	94	20	19.83900	99	5	50-130	30
Docosane (C22)	20	18.27900	91	20	19.12300	96	5	50-130	30
Tetracosane (C24)	20	19.31500	96	20	20.25600	101	5	50-130	30
Hexacosane (C26)	20	18.80600	94	20	19.77100	99	5	50-130	30
Octacosane (C28)	20	18.61200	93	20	19.59800	98	5	50-130	30
triacontane (C30)	20	18.97300	95	20	19.88000	99	4	50-130	30
Hexatriacontane (C36)	20	17.07600	85	20	17.61300	88	3	50-130	30



Laboratory Control Sample Summary

Form 3

Petroleum

Client : AKRF, Inc. Lab Number : L2411621
 Project Name : BUD NORTH Project Number : 200112
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG1896155-2 Analysis Date : 03/16/24 04:48 File ID : F603142458
 LCSD Sample ID : WG1896155-3 Analysis Date : 03/16/24 06:15 File ID : F603142460

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Nonane (C9)	20	14.85100	74	20	9.309000	46 Q	47 Q	50-130	30
Decane (C10)	20	16.66300	83	20	10.97500	55	41 Q	50-130	30
Dodecane (C12)	20	18.263000	91	20	13.493000	67	30	50-130	30
Tetradecane (C14)	20	18.442000	92	20	17.172000	86	7	50-130	30
Hexadecane (C16)	20	19.94500	100	20	20.55700	103	3	50-130	30
Octadecane (C18)	20	21.08400	105	20	21.73300	109	4	50-130	30
Nonadecane (C19)	20	19.94900	100	20	20.57000	103	3	50-130	30
Eicosane (C20)	20	20.22700	101	20	20.87400	104	3	50-130	30
Docosane (C22)	20	19.73400	99	20	20.34300	102	3	50-130	30
Tetracosane (C24)	20	21.04300	105	20	21.68700	108	3	50-130	30
Hexacosane (C26)	20	19.81200	99	20	20.41600	102	3	50-130	30
Octacosane (C28)	20	20.63300	103	20	21.20400	106	3	50-130	30
triacontane (C30)	20	20.08300	100	20	20.68200	103	3	50-130	30
Hexatriacontane (C36)	20	18.21100	91	20	18.81000	94	3	50-130	30





ANALYTICAL REPORT

Lab Number:	L2411776
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:	03/14/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

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



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2411776-01	SVE-INF_20240305	SOIL_VAPOR	2-21 MALT DRIVE, QUEENS	03/05/24 12:45	03/05/24
L2411776-02	SVE-INT_20240305	SOIL_VAPOR	2-21 MALT DRIVE, QUEENS	03/05/24 12:55	03/05/24
L2411776-03	SVE-EFF_20240305	SOIL_VAPOR	2-21 MALT DRIVE, QUEENS	03/05/24 13:05	03/05/24
L2411776-04	TB_20240305	SOIL_VAPOR	2-21 MALT DRIVE, QUEENS	03/05/24 13:10	03/05/24

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

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, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

Case Narrative (continued)

Volatile Organics in Air

L2411776-01D through -03D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/14/24

AIR

Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-01 D
 Client ID: SVE-INF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:45
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/24 06:07
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	6.93	0.419	--	34.3	2.07	--		2.093
Chloromethane	ND	0.419	--	ND	0.865	--		2.093
Freon-114	ND	0.419	--	ND	2.93	--		2.093
Vinyl chloride	ND	0.419	--	ND	1.07	--		2.093
1,3-Butadiene	ND	0.419	--	ND	0.927	--		2.093
Bromomethane	ND	0.419	--	ND	1.63	--		2.093
Chloroethane	ND	0.419	--	ND	1.11	--		2.093
Ethanol	15.1	10.5	--	28.5	19.8	--		2.093
Vinyl bromide	ND	0.419	--	ND	1.83	--		2.093
Acetone	5.39	2.09	--	12.8	4.96	--		2.093
Trichlorofluoromethane	17.9	0.419	--	101	2.35	--		2.093
Isopropanol	70.8	1.05	--	174	2.58	--		2.093
1,1-Dichloroethene	ND	0.419	--	ND	1.66	--		2.093
Methylene chloride	ND	1.05	--	ND	3.65	--		2.093
3-Chloropropene	ND	0.419	--	ND	1.31	--		2.093
Carbon disulfide	ND	0.419	--	ND	1.30	--		2.093
Freon-113	ND	0.419	--	ND	3.21	--		2.093
trans-1,2-Dichloroethene	ND	0.419	--	ND	1.66	--		2.093
1,1-Dichloroethane	ND	0.419	--	ND	1.70	--		2.093
Methyl tert butyl ether	ND	0.419	--	ND	1.51	--		2.093
2-Butanone	ND	1.05	--	ND	3.10	--		2.093
cis-1,2-Dichloroethene	ND	0.419	--	ND	1.66	--		2.093
Ethyl Acetate	ND	1.05	--	ND	3.78	--		2.093



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-01 D
 Client ID: SVE-INF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:45
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.419	--	ND	2.05	--		2.093
Tetrahydrofuran	ND	1.05	--	ND	3.10	--		2.093
1,2-Dichloroethane	ND	0.419	--	ND	1.70	--		2.093
n-Hexane	0.506	0.419	--	1.78	1.48	--		2.093
1,1,1-Trichloroethane	ND	0.419	--	ND	2.29	--		2.093
Benzene	ND	0.419	--	ND	1.34	--		2.093
Carbon tetrachloride	ND	0.419	--	ND	2.64	--		2.093
Cyclohexane	ND	0.419	--	ND	1.44	--		2.093
1,2-Dichloropropane	ND	0.419	--	ND	1.94	--		2.093
Bromodichloromethane	ND	0.419	--	ND	2.81	--		2.093
1,4-Dioxane	ND	0.419	--	ND	1.51	--		2.093
Trichloroethene	ND	0.419	--	ND	2.25	--		2.093
2,2,4-Trimethylpentane	ND	0.419	--	ND	1.96	--		2.093
Heptane	ND	0.419	--	ND	1.72	--		2.093
cis-1,3-Dichloropropene	ND	0.419	--	ND	1.90	--		2.093
4-Methyl-2-pentanone	ND	1.05	--	ND	4.30	--		2.093
trans-1,3-Dichloropropene	ND	0.419	--	ND	1.90	--		2.093
1,1,2-Trichloroethane	ND	0.419	--	ND	2.29	--		2.093
Toluene	1.23	0.419	--	4.64	1.58	--		2.093
2-Hexanone	ND	0.419	--	ND	1.72	--		2.093
Dibromochloromethane	ND	0.419	--	ND	3.57	--		2.093
1,2-Dibromoethane	ND	0.419	--	ND	3.22	--		2.093
Tetrachloroethene	3.60	0.419	--	24.4	2.84	--		2.093
Chlorobenzene	ND	0.419	--	ND	1.93	--		2.093
Ethylbenzene	0.561	0.419	--	2.44	1.82	--		2.093
p/m-Xylene	2.40	0.837	--	10.4	3.64	--		2.093



Project Name: BUD NORTH**Lab Number:** L2411776**Project Number:** 200112**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-01 D
 Client ID: SVE-INF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:45
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	0.419	--	ND	4.33	--		2.093
Styrene	ND	0.419	--	ND	1.78	--		2.093
1,1,2,2-Tetrachloroethane	ND	0.419	--	ND	2.88	--		2.093
o-Xylene	1.35	0.419	--	5.86	1.82	--		2.093
4-Ethyltoluene	ND	0.419	--	ND	2.06	--		2.093
1,3,5-Trimethylbenzene	ND	0.419	--	ND	2.06	--		2.093
1,2,4-Trimethylbenzene	ND	0.419	--	ND	2.06	--		2.093
Benzyl chloride	ND	0.419	--	ND	2.17	--		2.093
1,3-Dichlorobenzene	ND	0.419	--	ND	2.52	--		2.093
1,4-Dichlorobenzene	ND	0.419	--	ND	2.52	--		2.093
1,2-Dichlorobenzene	ND	0.419	--	ND	2.52	--		2.093
1,2,4-Trichlorobenzene	ND	0.419	--	ND	3.11	--		2.093
Naphthalene	ND	0.419	--	ND	2.20	--		2.093
Hexachlorobutadiene	ND	0.419	--	ND	4.47	--		2.093

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-02 D
 Client ID: SVE-INT_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:55
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/24 05:23
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	6.95	0.418	--	34.4	2.07	--		2.092
Chloromethane	ND	0.418	--	ND	0.863	--		2.092
Freon-114	ND	0.418	--	ND	2.92	--		2.092
Vinyl chloride	ND	0.418	--	ND	1.07	--		2.092
1,3-Butadiene	ND	0.418	--	ND	0.925	--		2.092
Bromomethane	ND	0.418	--	ND	1.62	--		2.092
Chloroethane	ND	0.418	--	ND	1.10	--		2.092
Ethanol	13.2	10.5	--	24.9	19.8	--		2.092
Vinyl bromide	ND	0.418	--	ND	1.83	--		2.092
Acetone	9.33	2.09	--	22.2	4.96	--		2.092
Trichlorofluoromethane	12.7	0.418	--	71.4	2.35	--		2.092
Isopropanol	8.90	1.05	--	21.9	2.58	--		2.092
1,1-Dichloroethene	ND	0.418	--	ND	1.66	--		2.092
Methylene chloride	ND	1.05	--	ND	3.65	--		2.092
3-Chloropropene	ND	0.418	--	ND	1.31	--		2.092
Carbon disulfide	ND	0.418	--	ND	1.30	--		2.092
Freon-113	ND	0.418	--	ND	3.20	--		2.092
trans-1,2-Dichloroethene	ND	0.418	--	ND	1.66	--		2.092
1,1-Dichloroethane	ND	0.418	--	ND	1.69	--		2.092
Methyl tert butyl ether	ND	0.418	--	ND	1.51	--		2.092
2-Butanone	ND	1.05	--	ND	3.10	--		2.092
cis-1,2-Dichloroethene	ND	0.418	--	ND	1.66	--		2.092
Ethyl Acetate	ND	1.05	--	ND	3.78	--		2.092



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-02 D
 Client ID: SVE-INT_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:55
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.418	--	ND	2.04	--		2.092
Tetrahydrofuran	ND	1.05	--	ND	3.10	--		2.092
1,2-Dichloroethane	ND	0.418	--	ND	1.69	--		2.092
n-Hexane	1.40	0.418	--	4.93	1.47	--		2.092
1,1,1-Trichloroethane	ND	0.418	--	ND	2.28	--		2.092
Benzene	ND	0.418	--	ND	1.34	--		2.092
Carbon tetrachloride	ND	0.418	--	ND	2.63	--		2.092
Cyclohexane	ND	0.418	--	ND	1.44	--		2.092
1,2-Dichloropropane	ND	0.418	--	ND	1.93	--		2.092
Bromodichloromethane	ND	0.418	--	ND	2.80	--		2.092
1,4-Dioxane	ND	0.418	--	ND	1.51	--		2.092
Trichloroethene	ND	0.418	--	ND	2.25	--		2.092
2,2,4-Trimethylpentane	ND	0.418	--	ND	1.95	--		2.092
Heptane	ND	0.418	--	ND	1.71	--		2.092
cis-1,3-Dichloropropene	ND	0.418	--	ND	1.90	--		2.092
4-Methyl-2-pentanone	ND	1.05	--	ND	4.30	--		2.092
trans-1,3-Dichloropropene	ND	0.418	--	ND	1.90	--		2.092
1,1,2-Trichloroethane	ND	0.418	--	ND	2.28	--		2.092
Toluene	3.94	0.418	--	14.8	1.58	--		2.092
2-Hexanone	ND	0.418	--	ND	1.71	--		2.092
Dibromochloromethane	ND	0.418	--	ND	3.56	--		2.092
1,2-Dibromoethane	ND	0.418	--	ND	3.21	--		2.092
Tetrachloroethene	ND	0.418	--	ND	2.83	--		2.092
Chlorobenzene	ND	0.418	--	ND	1.93	--		2.092
Ethylbenzene	ND	0.418	--	ND	1.82	--		2.092
p/m-Xylene	ND	0.837	--	ND	3.64	--		2.092



Project Name: BUD NORTH**Lab Number:** L2411776**Project Number:** 200112**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-02 D
 Client ID: SVE-INT_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 12:55
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	0.418	--	ND	4.32	--		2.092
Styrene	ND	0.418	--	ND	1.78	--		2.092
1,1,2,2-Tetrachloroethane	ND	0.418	--	ND	2.87	--		2.092
o-Xylene	ND	0.418	--	ND	1.82	--		2.092
4-Ethyltoluene	ND	0.418	--	ND	2.05	--		2.092
1,3,5-Trimethylbenzene	ND	0.418	--	ND	2.05	--		2.092
1,2,4-Trimethylbenzene	ND	0.418	--	ND	2.05	--		2.092
Benzyl chloride	ND	0.418	--	ND	2.16	--		2.092
1,3-Dichlorobenzene	ND	0.418	--	ND	2.51	--		2.092
1,4-Dichlorobenzene	ND	0.418	--	ND	2.51	--		2.092
1,2-Dichlorobenzene	ND	0.418	--	ND	2.51	--		2.092
1,2,4-Trichlorobenzene	ND	0.418	--	ND	3.10	--		2.092
Naphthalene	ND	0.418	--	ND	2.19	--		2.092
Hexachlorobutadiene	ND	0.418	--	ND	4.46	--		2.092

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



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-03 D
 Client ID: SVE-EFF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 13:05
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/24 02:27
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	6.78	0.420	--	33.5	2.08	--		2.1
Chloromethane	ND	0.420	--	ND	0.867	--		2.1
Freon-114	ND	0.420	--	ND	2.94	--		2.1
Vinyl chloride	ND	0.420	--	ND	1.07	--		2.1
1,3-Butadiene	ND	0.420	--	ND	0.929	--		2.1
Bromomethane	ND	0.420	--	ND	1.63	--		2.1
Chloroethane	ND	0.420	--	ND	1.11	--		2.1
Ethanol	13.9	10.5	--	26.2	19.8	--		2.1
Vinyl bromide	ND	0.420	--	ND	1.84	--		2.1
Acetone	10.9	2.10	--	25.9	4.99	--		2.1
Trichlorofluoromethane	12.2	0.420	--	68.6	2.36	--		2.1
Isopropanol	9.50	1.05	--	23.4	2.58	--		2.1
1,1-Dichloroethene	ND	0.420	--	ND	1.67	--		2.1
Methylene chloride	ND	1.05	--	ND	3.65	--		2.1
3-Chloropropene	ND	0.420	--	ND	1.31	--		2.1
Carbon disulfide	ND	0.420	--	ND	1.31	--		2.1
Freon-113	ND	0.420	--	ND	3.22	--		2.1
trans-1,2-Dichloroethene	ND	0.420	--	ND	1.67	--		2.1
1,1-Dichloroethane	ND	0.420	--	ND	1.70	--		2.1
Methyl tert butyl ether	ND	0.420	--	ND	1.51	--		2.1
2-Butanone	ND	1.05	--	ND	3.10	--		2.1
cis-1,2-Dichloroethene	ND	0.420	--	ND	1.67	--		2.1
Ethyl Acetate	ND	1.05	--	ND	3.78	--		2.1



Project Name: BUD NORTH**Project Number:** 200112**Lab Number:** L2411776**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-03 D
 Client ID: SVE-EFF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 13:05
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.420	--	ND	2.05	--		2.1
Tetrahydrofuran	1.39	1.05	--	4.10	3.10	--		2.1
1,2-Dichloroethane	ND	0.420	--	ND	1.70	--		2.1
n-Hexane	1.62	0.420	--	5.71	1.48	--		2.1
1,1,1-Trichloroethane	ND	0.420	--	ND	2.29	--		2.1
Benzene	ND	0.420	--	ND	1.34	--		2.1
Carbon tetrachloride	ND	0.420	--	ND	2.64	--		2.1
Cyclohexane	ND	0.420	--	ND	1.45	--		2.1
1,2-Dichloropropane	ND	0.420	--	ND	1.94	--		2.1
Bromodichloromethane	ND	0.420	--	ND	2.81	--		2.1
1,4-Dioxane	ND	0.420	--	ND	1.51	--		2.1
Trichloroethene	ND	0.420	--	ND	2.26	--		2.1
2,2,4-Trimethylpentane	ND	0.420	--	ND	1.96	--		2.1
Heptane	ND	0.420	--	ND	1.72	--		2.1
cis-1,3-Dichloropropene	ND	0.420	--	ND	1.91	--		2.1
4-Methyl-2-pentanone	ND	1.05	--	ND	4.30	--		2.1
trans-1,3-Dichloropropene	ND	0.420	--	ND	1.91	--		2.1
1,1,2-Trichloroethane	ND	0.420	--	ND	2.29	--		2.1
Toluene	3.37	0.420	--	12.7	1.58	--		2.1
2-Hexanone	ND	0.420	--	ND	1.72	--		2.1
Dibromochloromethane	ND	0.420	--	ND	3.58	--		2.1
1,2-Dibromoethane	ND	0.420	--	ND	3.23	--		2.1
Tetrachloroethene	0.695	0.420	--	4.71	2.85	--		2.1
Chlorobenzene	ND	0.420	--	ND	1.93	--		2.1
Ethylbenzene	ND	0.420	--	ND	1.82	--		2.1
p/m-Xylene	ND	0.840	--	ND	3.65	--		2.1



Project Name: BUD NORTH**Lab Number:** L2411776**Project Number:** 200112**Report Date:** 03/14/24**SAMPLE RESULTS**

Lab ID: L2411776-03 D
 Client ID: SVE-EFF_20240305
 Sample Location: 2-21 MALT DRIVE, QUEENS

Date Collected: 03/05/24 13:05
 Date Received: 03/05/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	0.420	--	ND	4.34	--		2.1
Styrene	ND	0.420	--	ND	1.79	--		2.1
1,1,2,2-Tetrachloroethane	ND	0.420	--	ND	2.88	--		2.1
o-Xylene	ND	0.420	--	ND	1.82	--		2.1
4-Ethyltoluene	ND	0.420	--	ND	2.06	--		2.1
1,3,5-Trimethylbenzene	ND	0.420	--	ND	2.06	--		2.1
1,2,4-Trimethylbenzene	ND	0.420	--	ND	2.06	--		2.1
Benzyl chloride	ND	0.420	--	ND	2.17	--		2.1
1,3-Dichlorobenzene	ND	0.420	--	ND	2.53	--		2.1
1,4-Dichlorobenzene	ND	0.420	--	ND	2.53	--		2.1
1,2-Dichlorobenzene	ND	0.420	--	ND	2.53	--		2.1
1,2,4-Trichlorobenzene	ND	0.420	--	ND	3.12	--		2.1
Naphthalene	ND	0.420	--	ND	2.20	--		2.1
Hexachlorobutadiene	ND	0.420	--	ND	4.48	--		2.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140



Project Name: BUD NORTH

Lab Number: L2411776

Project Number: 200112

Report Date: 03/14/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/24 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1895848-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: BUD NORTH

Lab Number: L2411776

Project Number: 200112

Report Date: 03/14/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/24 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1895848-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: BUD NORTH

Lab Number: L2411776

Project Number: 200112

Report Date: 03/14/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/24 14:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1895848-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411776

Report Date: 03/14/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1895848-3								
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	89		-		70-130	-		
Freon-114	98		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	89		-		70-130	-		
Ethanol	83		-		40-160	-		
Vinyl bromide	83		-		70-130	-		
Acetone	91		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	88		-		40-160	-		
1,1-Dichloroethene	92		-		70-130	-		
Tertiary butyl Alcohol	90		-		70-130	-		
Methylene chloride	94		-		70-130	-		
3-Chloropropene	93		-		70-130	-		
Carbon disulfide	82		-		70-130	-		
Freon-113	90		-		70-130	-		
trans-1,2-Dichloroethene	85		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	87		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411776

Report Date: 03/14/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1895848-3								
Ethyl Acetate	92		-		70-130	-		
Chloroform	90		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		
n-Hexane	94		-		70-130	-		
1,1,1-Trichloroethane	82		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	90		-		70-130	-		
Cyclohexane	94		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	94		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	92		-		70-130	-		
2,2,4-Trimethylpentane	94		-		70-130	-		
Heptane	94		-		70-130	-		
cis-1,3-Dichloropropene	93		-		70-130	-		
4-Methyl-2-pentanone	93		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	91		-		70-130	-		
Toluene	89		-		70-130	-		
2-Hexanone	92		-		70-130	-		
Dibromochloromethane	96		-		70-130	-		
1,2-Dibromoethane	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2411776

Report Date: 03/14/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1895848-3								
Tetrachloroethene	86		-		70-130	-		
Chlorobenzene	87		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	93		-		70-130	-		
Bromoform	95		-		70-130	-		
Styrene	92		-		70-130	-		
1,1,2,2-Tetrachloroethane	93		-		70-130	-		
o-Xylene	95		-		70-130	-		
4-Ethyltoluene	90		-		70-130	-		
1,3,5-Trimethylbenzene	95		-		70-130	-		
1,2,4-Trimethylbenzene	95		-		70-130	-		
Benzyl chloride	96		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	98		-		70-130	-		
1,2-Dichlorobenzene	90		-		70-130	-		
1,2,4-Trichlorobenzene	100		-		70-130	-		
Naphthalene	96		-		70-130	-		
Hexachlorobutadiene	97		-		70-130	-		

Project Name: BUD NORTH**Lab Number:** L2411776**Project Number:** 200112**Report Date:** 03/14/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2411776-01A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-01A1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-01A2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-01X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-01X1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-01X2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02A1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02A2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02X1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-02X2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03A1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03A2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03X1	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-03X2	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2411776-04A	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		HOLD-AIR-INV(30)
L2411776-04X	Tedlar Bag 1 liter-Polypropylene Fitting	NA	NA			Y	Absent		HOLD-AIR-INV(30)

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

GLOSSARY

Acronyms

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

Report Format: Data Usability Report



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

Data Qualifiers

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

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2411776
Report Date: 03/14/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; 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.

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, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

CHAIN OF CUSTODY				PAGE 1 OF 1																																																																					
 WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193 MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288		Project Information		Report Information - Data Deliverables																																																																					
		Project Name: Bud North Project Location: 2-21 Malt Priv, Queen Project #: 200112 Project Manager: Patrick Diggins ALPHA Quote #:		☐ FAX ☐ EMAIL ☒ ADEX ☐ Add'l Deliverables																																																																					
Client Information		Billing Information		Same as Client info ☒ PO #: 200112																																																																					
Client: AKRF Address: 440 Park Ave South, Fl 7, New York, NY Phone: 603-494-7090 Fax: Email: jdiggins@akrf.com ☐ These samples have been previously analyzed by Alpha		Turn-Around Time ☒ Standard ☐ RUSH (only confirmed if pre-approved) Date Due: Time:																																																																							
Other Project Specific Requirements/Comments/Detection Limits: CAT B DELIVERABLES /EQUISED																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>11776-01</td> <td>SVE-INF-20240305</td> <td>3/5/24</td> <td>1245</td> <td>Air</td> <td>MF</td> </tr> <tr> <td>-02</td> <td>SVE-INT-20240305</td> <td>3/5/24</td> <td>1255</td> <td>Air</td> <td>MF</td> </tr> <tr> <td>-03</td> <td>SVE-EFF-20240305</td> <td>3/5/24</td> <td>1305</td> <td>Air</td> <td>MF</td> </tr> <tr> <td>-04</td> <td>TB-20240305</td> <td>3/5/24</td> <td>1310</td> <td>Air</td> <td>MF</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> ANALYSIS VOCs TO-15 SAMPLE HANDLING Filtration _____ ☐ Done ☐ Not needed ☐ Lab to do Preservation _____ ☐ Lab to do (Please specify below) Sample Specific Comments						ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	11776-01	SVE-INF-20240305	3/5/24	1245	Air	MF	-02	SVE-INT-20240305	3/5/24	1255	Air	MF	-03	SVE-EFF-20240305	3/5/24	1305	Air	MF	-04	TB-20240305	3/5/24	1310	Air	MF																																				
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Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.																																																																									

March 19, 2024

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

Re: Data Usability Summary Report – Alpha Analytical – L2411776.

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Alpha Analytical for three soil vapor samples and one trip blank from the Bud North site, which were reported in a single data package under Job No. L2411776, has been completed. The following samples were reported:

SVE-INF_20240305	SVE-INT_20240305
SVE-EFF_20240305	TB_20240305

Analyses were performed in accordance with EPA Method TO-15 (Volatile Organics). The review was performed to the extent possible, in accordance with the analytical methods and “DER-10/ Technical Guidance for Site Investigation and Remediation”. Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No – See Following Sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes
---	-----

Based on the data review effort, results are usable, with the following qualifications:

- The result for 1,2,4-trichlorobenzene in all samples is qualified as estimated due to high relative standard deviation (RSD) in the initial calibration.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included as Attachment C.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
 - Method blanks
 - Field blanks
 - Trip Blanks
 - Surrogate recoveries
 - LCS/LCSD recoveries
 - MS/MSD recoveries
 - Internal standards
 - Serial dilutions
 - Duplicates
- Instrument related quality control data:
 - Instrument tunes
 - Calibration summaries
 - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

When a sample result is qualified estimated 'J' in addition to estimated 'J+' or 'J-', the 'J' qualifier takes precedence, and the bias is indeterminate.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting a sample collection date of March 5, 2024. The samples were received on March 6, 2024. All samples were received intact and analyzed within method holding time.

The data deliverable indicates that the samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt to extend the holding time for analysis. The data deliverable does not include clean canister certification. The laboratory was contacted and replied 'This is not something that the lab tracks. We do use batch cleaned canisters for this.' Sample results are not qualified based on this finding.

A. Volatile Organics

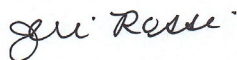
1. Calibration

One initial calibration (IC) was reported and all relative standard deviations (RSDs) or correlation coefficients were acceptable, with the exception of the RSD for 1,2,4-trichlorobenzene (37.6%RSD, criterion $\leq 30\%$ RSD). The high RSD is due to the low response in the two lowest concentration calibration standards. On this basis, the results for 1,2,4-trichlorobenzene in all samples are qualified as estimated (UJ). The potential for false negatives exists.

A second source initial calibration verification (ICV) standard was analyzed following the IC and all percent differences are acceptable. Continuing calibration verification (CCV) standards were analyzed at the appropriate frequency and all RRFs and %Ds are acceptable.

No other qualification of sample results was made. 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)

ATTACHMENT C

**SELECTED PAGES FROM DATA PACKAGE -
QC EXCEEDANCES AND VALIDATION ISSUES**

Initial Calibration Summary

Form 6

Air Volatiles

Client : AKRF, Inc.
 Project Name : BUD NORTH
 Instrument ID : AIRLAB19
 Calibration dates : 03/05/24 01:42 03/05/24 07:03

Lab Number : L2411776
 Project Number : 200112
 Ical Ref : ICAL20913

Calibration Files

0.2 =r1928154.D 0.5 =r1928155.D 1.0 =r1928156.D 5.0 =r1928157.D 10 =r1928158.D 20 =r1928159.D
 50 =r1928160.D 100 =r1928161.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	5.196	5.157	5.285	6.461	6.483	5.776	5.026	4.561	5.4933	12.55
110)	indene	2.916	3.113	3.294	4.313	4.374	3.978	3.618	3.441	3.6308	14.97
111) C	1,2-dibromo-3-chloropropane	1.239	1.339	1.414	1.893	1.893	1.710	1.516	1.433	1.5545	16.04
112)	undecane	5.916	6.569	7.009	8.863	8.530	7.448	5.853	4.743	6.8664	20.33
113)	1,2,4,5-tetramethylbenzene	0.260	0.260	0.250	0.405	0.406	0.270	0.245	0.249	0.2932	23.84
114)	dodecane	2.804	4.306	5.347	8.376	8.528	7.211	5.645	4.360	5.8222	35.30#
115) C	1,2,4-trichlorobenzene	0.947	1.317	1.587	2.995	3.210	2.765	2.487	2.283	2.1990	37.60#
116)	naphthalene	3.369	4.396	5.203	8.309	8.398	7.403	6.246	5.518	6.1054	29.94
117)	1,2,3-trichlorobenzene	1.209	1.475	1.737	2.705	2.780	2.543	2.207	2.041	2.0872	27.78
118)	benzothiophene	0.258	0.368	0.477	1.272	1.388	0.799	0.677	0.587	0.7281	56.18#
119) C	hexachlorobutadiene	2.232	2.425	2.423	3.073	2.985	2.527	2.065	1.637	2.4209	19.32
120)	2-methylnaphthalene			0.385	1.854	2.618	1.564	1.568	0.296	1.3810	64.69#
121)	1-methylnaphthalene			0.860	3.525	4.303	2.637	2.453	0.381	2.3599	63.94#

ATTACHMENT C
SSDS AND SVES INSPECTION LOGS

SSDS MONITORING INSPECTION FORM Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY			
Inspector Name: S. Grens		Date: 3/5/2024	
Time In: 9:00		Time Out: 15:00	
General			
Weather: Rain	Temperature: 44 deg F	Barometric Pressure: 30.2	
1. When was the last rain event? Now.			
2. Is the blower currently operating? Yes <i>If no, please list reason/alarm condition:</i>			
3. Any evidence of system tampering, vandalism or damage in the first floor equipment room? - No			
4. Is air discharging from the exhaust piping to the roof? - Yes			
5. Any evidence of system tampering, vandalism, or damage to the exhaust stack? - No			
6. Were all cleanout/sampling port caps securely attached prior to system testing? - Yes <i>If no, list location and contact Project Manager/Project Director.</i>			
7. Is the concrete floor slab overlying all of the SSDS piping runs intact? - Yes <i>If no, list location and contact Project Manager/Project Director.</i>			

SVE INSPECTION LOG MONTHLY SOIL VAPOR EXTRACTION SYSTEM INSPECTION Newtown Creek Bud Site - North Block, 2-10 54th Avenue, Queens, NY																				
Inspector Name: S. Grens			Date: 3/5/2024																	
Time IN: 900			Time OUT: 1300																	
GENERAL																				
Weather: Rain		Temperature: 44 deg F		Barometric Pressure: 30.2 Equipment Room Temperature: 65 deg F																
When was the last rain event? 3/5/2024																				
Is the SVE system being cycled on or off this month? ☒ On / ☐ Off (circle one) <i>If issues cycling system on or off, ALERT PROJECT MANAGER and please describe issue:</i>																				
Is the SVE blower currently operating? Yes <i>If no, ALERT PROJECT MANAGER and please list reason/alarm condition:</i>																				
What is the VFD setting? 60 Hz <i>If under 30 Hz, ALERT PROJECT MANAGER:</i>																				
Is condensate in the knockout tank gauge below the low-high float sensor? Yes <i>If no, ALERT PROJECT MANAGER and manually drain knockout tank</i>																				
Is transfer pump working? Yes <i>If no, ALERT PROJECT MANAGER.</i>																				
Is 55-gallon drum full? No <i>If yes, acknowledge alarm on panel and ALERT PROJECT MANAGER.</i>																				
Any evidence of system tampering, vandalism or damage? No <i>If yes, ALERT PROJECT MANAGER and please note findings:</i>																				
Any evidence of system tampering, vandalism or damage to the exhaust stack? No <i>If yes, ALERT PROJECT MANAGER and please note findings:</i>																				
Notes: This SVE Inspection Log should be completed along with the sampling log for each sampling event. PID - Photoionization Detector; ppm - parts per million; NA - Not applicable; GAC - Granular Activated Carbon																				
Comments: Pressure Influent GAC - 13 " H2O. Pressure Effluent GAC 5" H2O. East Blower Vacuum Pre-filter 5.5" H2O. Vacuum Post-filter 5.5" H2O. West Blower Vacuum Pre-filter 7.0" H2O. Vacuum Post-filter 7.0" H2O.																				
<table><tr><th colspan="3">Emergency Contact Information</th></tr><tr><th>Name</th><th>Title</th><th>Contact Number</th></tr><tr><td>Marc Godick</td><td>AKRF Project Director</td><td>914-922-2356 (office)</td></tr><tr><td>Patrick Diggins</td><td>Project Manager</td><td>914-922-2356 (office) 603-494-7090 (cell)</td></tr><tr><td>Chris Steinmann</td><td>Owner's Representative</td><td>917-295-0948 (cell)</td></tr></table>						Emergency Contact Information			Name	Title	Contact Number	Marc Godick	AKRF Project Director	914-922-2356 (office)	Patrick Diggins	Project Manager	914-922-2356 (office) 603-494-7090 (cell)	Chris Steinmann	Owner's Representative	917-295-0948 (cell)
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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):		Post-Blower Outlet Temperature (°F):		Knockout Tank Vacuum (Inches of water column):
40-80°F		70-110°F		0-50 inH2O
62		90		4
Pre-filter Vacuum (Inches of water column):		Post-filter Vacuum (Inches of water column):		Post-Blower Pressure (Inches of water column):
0-50 inH2O		0-50 inH2O		0-20 inH2O
5		6.2		25
GAC Influent PID (ppm):		GAC Intermediate PID (ppm):		GAC Effluent PID (ppm):
		Less than GAC Influent PID		<1 ppm
10.0		10.0		ND
Monitoring Location	Vacuum Reading in. H2O	Air Flow Reading in. H2O	Air Flow Reading CFM	Notes
SVMP-01	1.174	na	na	
SVMP-02	1.25	na	na	
SVMP-03	1.229	na	na	
SVMP-04	1.042	na	na	
SVMP-05	0.851	na	na	
SVMP-06	1.152	na	na	
SVE-01	2.5	0.06	57	
SVE-02	2.6	0.26	118	
SVE-03	2.5	0.15	90	
SVE-04	2.5	0.04	46	
SVE-05	2.6	0.01	23	

ATTACMENT D
DAR-1 SUMMARY

					Facility Wide										
CAS NUMBER	CHEMICAL NAME	SGC (µg/m³)	AGC (µg/m³)	Toxicity				Scaled Max Impact (µg/m3)			ERP			Initial	ER
					ERP (lb/hr)	ERP (lb/yr)	annual (lb/yr)	1-hr	Annual-ERP	Annual-Actual	%SGC	%AGC	%AGC	ER	Adjustment
00071-55-6	METHYL CHLOROFORM	9000	5000	L	5.67E-06	0.049676	0.04967597	0.00	0.00	0.00	0.0%	0.0%	0.0%	C	None
00079-34-5	TETRACHLOROETHANE, 1,1,2,2-	----	16	M	7.13E-06	0.062475	0.062474582	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00079-00-5	TRICHLOROETHANE, 1,1,2-	----	1.4	H	5.67E-06	0.049676	0.04967597	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	A	None
00075-34-3	DICHLOROETHANE, 1,1-	----	0.63	L	4.21E-06	0.036877	0.036877357	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	C	None
00075-35-4	VINYLDENE CHLORIDE	----	200	M	4.12E-06	0.036118	0.036118118	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00120-82-1	TRICHLOROBENZENE, 1,2,4-	3700	35	M	7.71E-06	0.067572	0.067572334	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00095-63-6	TRIMETHYLBENZENE, 1,2,4-	----	60	M	5.1E-06	0.044687	0.04468668	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00106-93-4	DIBROMOETHANE, 1, 2	----	0.0017	H	7.99E-06	0.069959	0.069958516	0.00	0.00	0.00	#VALUE!	7.2%	7.2%	A	None
00095-50-1	DICHLOROBENZENE, ORTHO-	30000	200	M	6.25E-06	0.054774	0.054773722	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00107-06-2	DICHLOROETHANE, 1,2-	----	0.038	H	4.21E-06	0.036877	0.036877357	0.00	0.00	0.00	#VALUE!	0.2%	0.2%	A	None
00078-87-5	PROPYLENE DICHLORIDE	----	4	M	4.8E-06	0.042084	0.042083573	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00108-67-8	TRIMETHYLBENZENE, 1,3,5-	----	60	M	5.1E-06	0.044687	0.04468668	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00106-99-0	BUTADIENE, 1,3-	----	0.033	H	2.3E-06	0.020131	0.020130699	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	A	None
00541-73-1	DICHLOROBENZENE, META-	----	10	M	6.25E-06	0.054774	0.054773722	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00106-46-7	DICHLOROBENZENE, PARA-	----	0.091	M	6.25E-06	0.054774	0.054773722	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	B	None
00123-91-1	DIOXANE, 1,4-	3000	0.2	M	3.74E-06	0.032756	0.03275577	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00540-84-1	ISOOCTANE	----	3300	M	4.85E-06	0.042517	0.042517424	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00078-93-3	METHYL ETHYL KETONE	13000	5000	M	7.68E-06	0.067247	0.067246946	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00591-78-6	METHYL BUTYL KETONE	4000	30	O	4.26E-06	0.037311	0.037311209	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00107-05-1	ALLYL CHLORIDE	600	1	M	3.24E-06	0.028417	0.028417258	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00622-96-8	BENZENE,1-ETHYL-4-METHYL-	-	0.1	-	5.1E-06	0.044687	0.04468668	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	B	None
00108-10-1	METHYL ISOBUTYL KETONE	31000	3000	M	1.06E-05	0.093278	0.093278022	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00067-64-1	ACETONE	180000	30000	L	4.79E-05	0.419751	0.419751098	0.01	0.00	0.00	0.0%	0.0%	0.0%	C	None
00071-43-2	BENZENE	27	0.13	H	3.32E-06	0.029068	0.029068035	0.00	0.00	0.00	0.0%	0.0%	0.0%	A	None
00100-44-7	BENZYL CHLORIDE	240	0.02	H	5.37E-06	0.047073	0.047072862	0.00	0.00	0.00	0.0%	0.4%	0.4%	A	None
00075-27-4	BROMODICHLROMETHANE	----	70	M	6.96E-06	0.060956	0.060956103	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00075-25-2	BROMOFORM	----	0.91	M	1.07E-05	0.094037	0.094037261	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00074-83-9	METHYL BROMIDE	3900	5	M	4.04E-06	0.035359	0.035358878	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00075-15-0	CARBON DISULFIDE	6200	700	M	3.23E-06	0.028309	0.028308795	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00056-23-5	CARBON TETRACHLORIDE	1900	0.17	H	6.54E-06	0.057268	0.057268367	0.00	0.00	0.00	0.0%	0.1%	0.1%	A	None
00108-90-7	CHLOROBENZENE	----	60	M	4.78E-06	0.041867	0.041866647	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00075-00-3	ETHYL CHLORIDE	----	10000	L	2.75E-06	0.024079	0.024078745	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	C	None
00067-66-3	CHLOROFORM	150	14.7	H	5.08E-06	0.04447	0.044469755	0.00	0.00	0.00	0.0%	0.0%	0.0%	A	None
00074-87-3	CHLOROMETHANE	22000	90	M	2.14E-06	0.018786	0.01878576	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00156-59-2	DICHLOROETHYLENE, CIS-	----	63	M	4.12E-06	0.036118	0.036118118	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
10061-01-5	1-PROPENE,1,3-DICHLORO-,(Z)-	-	0.1	-	4.72E-06	0.041324	0.041324333	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	B	None
00110-82-7	CYCLOHEXANE	----	6000	L	3.58E-06	0.031346	0.031345754	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	C	None
00124-48-1	CHLORODIBROMOMETHANE	-	0.1	-	8.85E-06	0.077551	0.077550913	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	B	None
00075-71-8	DICHLORODIFLUOROMETHANE	----	12000	O	8.39E-05	0.735378	0.735377892	0.01	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00064-17-5	ETHANOL	----	45000	L	6.77E-05	0.593292	0.593291604	0.01	0.00	0.00	#VALUE!	0.0%	0.0%	C	None
00141-78-6	ETHYL ACETATE	----	3400	M	9.36E-06	0.081998	0.081997889	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00100-41-4	ETHYLBENZENE	----	1000	M	5.27E-06	0.046205	0.04620516	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00076-13-1	TRICHLOROTRIFLUOROETHANE, 1,1,2-	960000	180000	L	7.96E-06	0.069742	0.069741591	0.00	0.00	0.00	0.0%	0.0%	0.0%	C	None
00076-14-2	DICHLOROTETRAFLUORETHANE	----	17000	O	7.27E-06	0.063668	0.063667673	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00142-82-5	HEPTANE, N-	210000	3900	M	4.26E-06	0.037311	0.037311209	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00087-68-3	HEXACHLOROBUTADIENE	----	0.045	M	1.11E-05	0.097074	0.09707422	0.00	0.00	0.00	#VALUE!	0.4%	0.4%	B	None
00067-63-0	ISOPROPYL ALCOHOL	98000	7000	M	0.000244	2.141056	2.141055988	0.04	0.00	0.00	0.0%	0.0%	0.0%	B	None
01634-04-4	METHYL TERT-BUTYL ETHER	----	3.8	M	3.74E-06	0.032756	0.03275577	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00075-09-2	DICHLOROMETHANE	14000	46	M	9.04E-06	0.079178	0.079177856	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00110-54-3	HEXANE	----	700	M	9.27E-06	0.081239	0.081238649	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
00091-20-3	NAPHTHALENE	7900	3	M	5.45E-06	0.047724	0.047723639	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00095-47-6	XYLENE, ORTHO-	22000	100	M	9.51E-06	0.083299	0.083299443	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
179601-23-1	#N/A	#N/A	#N/A	#N/A	1.74E-05	0.15239	0.152390256	0.00	0.00	0.00	#N/A	#N/A	#N/A	#N/A	#N/A
00100-42-5	STYRENE	17000	1000	M	4.42E-06	0.038721	0.038721225	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00127-18-4	TETRACHLOROETHYLENE	300	3.8	H	3.6E-05	0.315735	0.315735257	0.01	0.00	0.00	0.0%	0.0%	0.0%	A	None
00109-99-9	TETRAHYDROFURAN	30000	350	M	8.91E-06	0.078093	0.078093228	0.00	0.00	0.00	0.0%	0.0%	0.0%	B	None
00108-88-3	TOLUENE	37000	5000	L	2.15E-05	0.188075	0.188074523	0.00	0.00	0.00	0.0%	0.0%	0.0%	C	None
00156-60-5	DICHLOROETHYLENE, TRANS-	----	63	M	4.12E-06	0.036118	0.036118118	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	B	None
10061-02-6	TRANS-1,3-DICHLORO PROPENE	-	0.1	-	4.72E-06	0.041324	0.041324333	0.00	0.00	0.00	#VALUE!	0.1%	0.1%	B	None
00079-01-6	TRICHLOROETHYLENE	20	0.21	H	5.58E-06	0.048917	0.04891673	0.00	0.00	0.00	0.0%	0.0%	0.0%	A	None
00075-69-4	TRICHLOROFLUOROMETHANE	9000	5000	L	0.00021	1.839529	1.839529359	0.03	0.00	0.00	0.0%	0.0%	0.0%	C	None
00593-60-2	VINYL BROMIDE	----	3	H	4.54E-06	0.039806	0.039805853	0.00	0.00	0.00	#VALUE!	0.0%	0.0%	A	None
00075-01-4	VINYL CHLORIDE	180000	0.11	H	2.65E-06	0.023211	0.023211043	0.00	0.00	0.00	0.0%	0.0%	0.0%	A	None