

May 30, 2024

Ms. Marlen Salazar
New York State Department of Environmental Conservation (NYSDEC) Region 2
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 11101

RE: Seventh Quarter Groundwater Monitoring Report

27-01 Jackson Avenue
Long Island City, New York
NYSDEC Order on Consent No. S241209
Langan Project No.: 170472002

Dear Ms. Salazar:

In accordance with the January 23, 2020 Off-Site In-Situ Treatment Remedial Design Plan (RDP) and the December 12, 2022 NYSDEC-approved Off-Site Site Management Plan (OSMP), Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) conducted groundwater sampling within the public right-of-way and sidewalks adjacent to the 27-01 Jackson Avenue site located in the Long Island City neighborhood of Queens, New York (Brownfield Cleanup Program [BCP] Site No. C241209). The south- and west-adjoining sidewalks are subject to the April 20, 2022 Order on Consent and Administrative Settlement (CO), Index No. S241209-08-09 and hereinafter referred to as the "CO site". A site location map is provided as Figure 1. This was the seventh quarterly sampling event completed following implementation of the off-site in-situ groundwater treatment program between October 20 and November 11, 2021.

Project Background

The CO site is an approximately 2,750-square-foot area that spans sections of the Jackson Avenue and 43rd Avenue sidewalks adjoining the BCP site located at 27-01 Jackson Avenue in the Long Island City neighborhood of Queens, New York (identified as Block 432, Lot 21 on the Queens County Tax Map). A site layout plan is presented on Figure 2.

Light non-aqueous phase liquid (LNAPL), and petroleum-impacted soil, groundwater, and soil vapor were identified on- and off-site during a Remedial Investigation (RI) and supplemental sampling events performed between October 2018 and July 2020. To address the impacts, NYSDEC approved the RDP and the Remedial Action Work Plan (RAWP) on January 23, 2020 and January 9, 2021, respectively. A Track 1 remedy was achieved at the BCP site and a certificate of completion (COC) was issued on December 23, 2022. Pursuant to the RAWP, a CO

was executed on April 20, 2022, which requires compliance with the NYSDEC-approved December 12, 2022 OSMP. The intent of the CO is to monitor off-site conditions in groundwater following off-site groundwater treatment and on-site dewatering. The OSMP addresses the means for implementing, monitoring, and reporting on the Engineering and Institutional Controls (ECs/ICs) that are required by the CO for the off-site areas adjacent to the BCP site.

In-Situ Groundwater Treatment

An off-site in-situ groundwater treatment program was implemented to treat remaining petroleum-related VOCs beneath the CO site, which were initially identified during the RI. Targeted petroleum-related VOCs included benzene, toluene, ethylbenzene, and xylenes (BTEX), and their breakdown products. Impacted groundwater was treated using an activated carbon solution (PetroFixTM) via direct-push injection points located in a rough grid pattern to spread chemicals evenly within the off-site, south- and west-adjoining sidewalks comprising the CO site.

The injection program was carried out by Clean Harbors of Norwell, Massachusetts and Aquifer Drilling and Testing (ADT) of Mineola, New York, under the oversight of Langan, between October 20 and November 11, 2021. Injection point locations are shown on Figure 3. At each injection point, a hollow steel injection rod was advanced to depths ranging from about 15 to 30 feet below grade surface (bgs). Injections were made using a "bottom-up" approach, beginning at the deepest 2-foot interval, and raised from the bottom depth in 2-foot intervals to approximately 15 feet bgs. Approximately 14,400 pounds of Petrofix® and 720 pounds of electron acceptor blend were applied via direct-push drill rig between October 20 and November 11, 2021. Between 664 and 976 pounds of Petrofix® were applied to each point.

Performance Monitoring Methodology

The RDP and OSMP included baseline sampling and quarterly post-injection groundwater monitoring to evaluate the efficacy of the CO site remedy. Baseline groundwater sampling was conducted from existing monitoring wells MW-3 and MW-4 and temporary monitoring wells MW-1 and MW-2 on October 7 and 19, 2021. Monitoring wells MW-3 and MW-4 were compromised during installation of the support of excavation, and the four monitoring wells were reinstalled for post-remediation groundwater monitoring on August 22, 2022 and October 13 and 14, 2022. Post-injection monitoring well locations are shown on Figure 3.

Post-injection groundwater monitoring was not conducted between November 2021 and October 2022 due to remediation efforts and active dewatering at the BCP site. Six post-injection quarterly sampling events have been completed at the CO site in October 2022, January 2023, April 2023, July 2023, October 2023, and January 2024.

Between the third and fourth quarter sampling events, monitoring well MW-3 was compromised during the installation of utilities beneath the 43rd Avenue sidewalk. Considering VOCs were non-detect in MW-3 during the previous three quarters of sampling, NYSDEC allowed the discontinuation of sampling of MW-3 via email correspondence on August 8th, 2023. The Fourth Quarter Groundwater Monitoring Report, dated September 15, 2023, indicated that VOCs were



also non-detect in monitoring well MW-4 during the previous four quarters; therefore, NYSDEC allowed the discontinuation of sampling of MW-4 via email correspondence on October 13th, 2023. NYSDEC correspondence is included as Attachment A.

Well Purging and Sampling

Monitoring well sampling was conducted for monitoring wells MW-1 and MW-2 on April 25, 2024. Before sampling, each well was purged using the low-flow method developed by the United States Environmental Protection Agency (USEPA) "Low-Flow [Minimal Drawdown] Ground-Water Sampling Procedures," EPA/540/S-95/504, April 1996) and accepted by the NYSDEC. urging was performed using a peristaltic pump fitted with dedicated tubing at each well. During purging, the turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) were monitored using a Horiba U-52 water quality meter with a flow-through cell. Purged groundwater was containerized in 55-gallon drums during each event. The daily site observation report is included in Attachment B. The groundwater quality parameters were recorded in the Well Purging and Sampling Logs provided in Attachment C.

As a general rule, groundwater was purged until water quality parameters stabilized or after an hour of continuous purging. Groundwater quality parameters stabilized in MW-2 prior to sampling, and a groundwater sample was collected from MW-1 after an hour of continuous purging.

After purging each well, a groundwater sample was collected directly from the pump discharge line using USEPA low-flow techniques. For quality assurance and quality control, one field blank sample and one duplicate sample were collected. A trip blank was included in each shipment for quality control during transport. All samples were analyzed for Part 375/Target Compound List (TCL) VOCs via USEPA SW-846 method 8260C by Alpha Analytical Laboratories, a NYSDOH Environmental Laboratory Approval Program (ELAP)-accredited laboratory in Westborough, Massachusetts.

The laboratory analytical results for the baseline sampling event, the previous quarterly sampling events, and the April 2024 sampling event are summarized in Table 1 and illustrated on Figure 4. The laboratory analytical report from the April 2024 sampling event is provided as Attachment D. Groundwater analytical results were compared to the NYSDEC Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA drinking water (herein collectively referenced as the NYSDEC SGVs). Analytical results from the first quarterly sampling event are discussed in the NYSDEC-approved December 2022 Final Engineering Report (FER), and analytical results from subsequent quarters are discussed in their respective quarterly monitoring reports.



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April 2024 Performance Monitoring Analytical Results

Analytical results from the April 2024 performance monitoring are summarized as follows:

- MW-1: 1,2,4,5-Tetramethylbenzene was detected above the NYSDEC SGVs. In comparison to baseline analytical results, total VOC and total BTEX concentrations have decreased by 89% and 98%, respectively.
- MW-2: 1,2,4,5-Tetramethylbenzene, 1,2,4-trimethylbenzene, ethylbenzene, isopropylbenzene, and n-propylbenzene were detected above the NYSDEC SGVs. In comparison to baseline analytical results, total VOC and total BTEX concentrations have decreased by 98% and 99.8%, respectively.

Five VOCs were detected above the NYSDEC SGVs in groundwater samples collected during the April 2024 monitoring event. Total VOC concentrations have decreased by over 89% (MW-1) and 98% (MW-2), and total BTEX concentrations have decreased by over 98% (MW-1) and 99.8% (MW-2) when compared to baseline concentrations. In comparison to the sixth quarterly sampling event, analyte concentrations detected above the NYSDEC SGVs in MW-1 and MW-2 are generally within the same order of magnitude. Although residual petroleum impacts remain, continued degradation is anticipated. Based on the post-remedy sampling results, the off-site remedy appears to have been effective.

Analytical data is shown on Figure 4 and result trends are shown on Figure 5.

Data Validation

A copy of the Analytical Services Protocol (ASP) Category B laboratory report was submitted to Langan's data validation department for review in accordance with the USEPA validation guidelines for organic and inorganic data. The data were found to be 100% acceptable. The Data Usability Summary Report (DUSR) is included in Attachment E.



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Closure

Targeted petroleum-related VOC concentrations exceeded the NYSDEC SGVs in MW-1 and MW-2 but have been reduced by one to three orders of magnitude relative to baseline concentrations; therefore, consistent reduction has been observed. Based on the April 2024 sampling and previous sampling event results, the off-site remedy appears to have been effective in the post-remedy monitoring wells. We recommend continued monitoring to document achievement of asymptotic conditions, and further contaminant degradation trends.

Should you have any questions, please call the undersigned at 212-479-5427.

Sincerely,

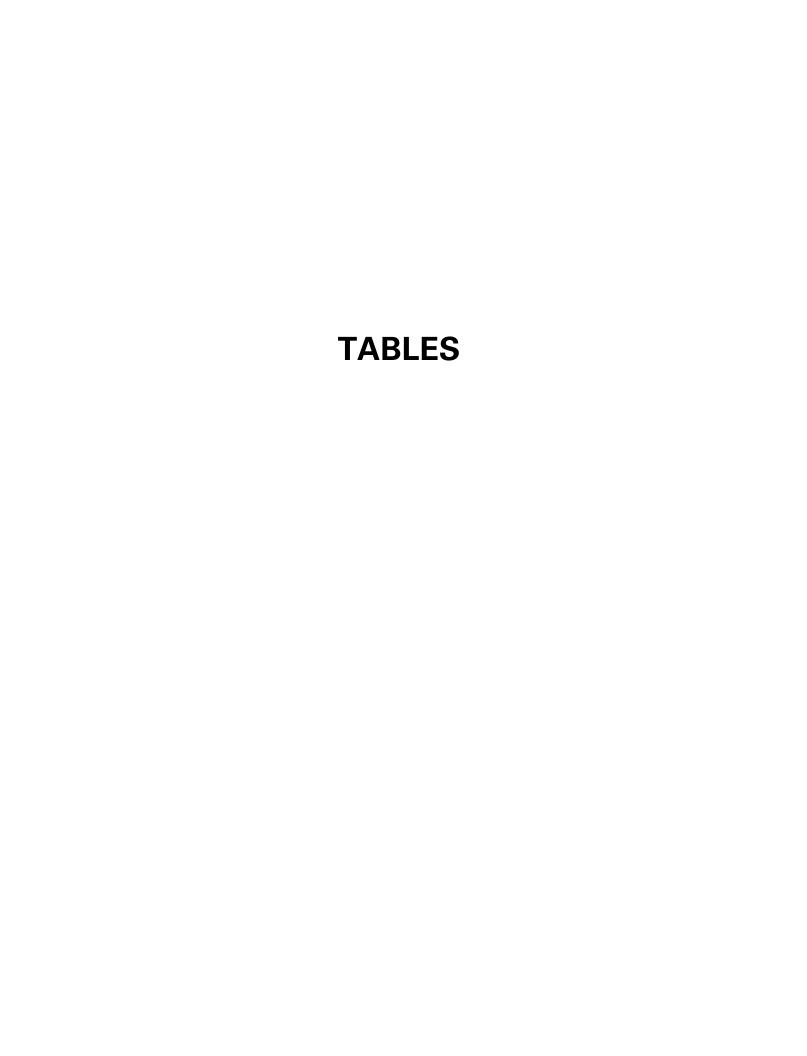
Langan Engineering, Environmental, Surveying Landscape Architecture and Geology, D.P.C.

Jason Hayes, P.E. Principal/Vice President

Enclosures:

Figure 1	Site Location Map
Figure 2	Site Layout Plan
Figure 3	In-Situ Groundwater Treatment Injection Plan
Figure 4	Groundwater Sample Analytical Results
Figure 5	Groundwater Sample Analytical Results Trends
Table 1	Groundwater Sample Analytical Results
Attachment A	NYSDEC Correspondence for MW-3 and MW-4 Monitoring
Attachment B	Daily Site Observation Report
Attachment C	Well Purging and Sampling Logs
Attachment D	Laboratory Analytical Report
Attachment E	Data Usability Summary Report





	Langan Project No.: 170472002 Sampling Event Receipe Quester 1 Quester 2 Quester 3 Quester 4 Quester 4 Quester 5 Quester 5 Quester 6 Quester 7 Quester 7 Quester 7													
			Sampling Event	Baseline	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 4	Quarter 5	Quarter 5	Quarter 6	Quarter 7	Quarter 7
	CAS	NYSDEC	Location	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Analyte	Number	SGVs	Sample Name	MW01_101921	MW-1_102122	MW-1_012623	MW-1_042623	MW-1_072723	DUP01_072723	MW-1_102323	DUP01_102323	MW-1_013124	MW-1_042524	DUP01_042524
	Number	0013	Sample Date	10/19/2021	10/21/2022	01/26/2023	04/26/2023	07/27/2023	07/27/2023	10/23/2023	10/23/2023	01/31/2024	04/25/2024	04/25/2024
V			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds	620.20.6	F	//	-0 E I I	-2 E I I	.0 E I I	-0 E I I	-0 E I I	-0 E I I	-0 E I I	-2 E I I	-0.511	-0 E I I	-0 E I I
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6	5 5	ug/l	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene 1,2,4-Trichlorobenzene	95-93-2 120-82-1	5	ug/l	12 <2.5 U	1.9 J <2.5 ∪	8.9 <2.5 U	1.7 J <2.5 U	<2 U <2.5 U	<2 U <2.5 U	7.6 <2.5 U	8.4 <2.5 U	8 <2.5 U	11 <2.5 U	11 <2.5 U
1,2,4-Trichlorobenzene	95-63-6	5	ug/l ug/l	11	0.77 J	0.74 J	<2.5 U	<2.5 U	<2.5 U	7.2	7.5	<2.5 U	2.6	2.6
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	7.8	4	1.7 J	<2.5 U	<2.5 U	<2.5 U	5.3	5.6	<2.5 U	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichloropropane 1,4-Dichlorobenzene	142-28-9 106-46-7	5 3	ug/l ug/l	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
1,4-Dichlorobenzene	105-46-7	NS	ug/l ug/l	<2.5 U	4	4.9	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	3.9	3.5	3.5
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	6.1	1.5 J	1.4 J	<2 U	<2 U	<2 U	4	4.3	<2 U	<2 U	<2 U
Acetone	67-64-1 107-13-1	50	ug/l	4.5 J <5 U	25	<5 U <5 U	<5 U <5 U	2.5 J	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U
Acrylonitrile Benzene	71-43-2	1	ug/l ug/l	17	<5 U <0.5 U	0.22 J	<0.5 U	<5 U <0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromobenzene	108-86-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bromomethane	74-83-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
Carbon Disulfide	75-15-0	60	ug/l	1.2 J	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5 5	ug/l	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U	<0.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U	<0.5 U	<0.5 U <2.5 U	<0.5 U	<0.5 U
Chlorobenzene Chloroethane	108-90-7 75-00-3	5 5	ug/l ug/l	<2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
Chloroform	67-66-3	7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloromethane	74-87-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cymene	99-87-6	5	ug/l	1.4 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5 5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Dichlorodifluoromethane Diethyl Ether (Ethyl Ether)	75-71-8 60-29-7	NS	ug/l ug/l	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U
Ethylbenzene	100-41-4	5	ug/l	54	<2.5 U	5.4	<2.5 U	<2.5 U	<2.5 U	4.7	5	1.9 J	1.5 J	1.5 J
Hexachlorobutadiene	87-68-3	0.5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	5	ug/l	10	<2.5 U	9.1	<2.5 U	<2.5 U	<2.5 U	3.9	4.2	5.6	2.1 J	2.1 J
M,P-Xylene	179601-23-1	5	ug/l	11	1.3 J	0.88 J	<2.5 U	<2.5 U	<2.5 U	3.7	4	<2.5 U	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<5 U	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride Naphthalene	75-09-2 91-20-3	5 10	ug/l ug/l	<2.5 U 3.4 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U 2.2 J	<2.5 U 2 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
n-Butylbenzene	104-51-8	5	ug/l	5.6	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	2.2 J 1.4 J	2 J 1.6 J	<2.5 U	0.87 J	<2.5 U 0.81 J
n-Propylbenzene	103-65-1	5	ug/l	17	<2.5 U	11	<2.5 U	<2.5 U	<2.5 U	7.1	7.7	5.7	1.5 J	1.6 J
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	ug/l	9.1	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	0.98 J	1 J	<2.5 U	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	5	ug/l	4.6	<2.5 U	2.7	0.87 J	<2.5 U	<2.5 U	0.9 J	1 J	1.9 J	1.2 J	1.1 J
Styrene	100-42-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	1.2 J	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene Total 1,2-Dichloroethene (Cis and Trans)	108-88-3 540-59-0	5 NS	ug/l ug/l	5.3 <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
Total Xylenes	1330-20-7	5 5	ug/l	20	1.3 J	0.88 J	<2.5 U	<2.5 U	<2.5 U	<2.5 ∪ 4.7 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Chlorida	108-05-4	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Vinyl Chloride	75-01-4	2	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U

Langan Project No.: 170472002													
			Sampling Event	Baseline	Quarter 1	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 5	Quarter 6	Quarter 6	Quarter 7
	CAS	NYSDEC	Location	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Analyte	Number	SGVs	Sample Name	MW02_101921	MW-2_102022	DUP01_102022	MW-2_012623	MW-2_042623	MW-2_072723	MW-2_102323	MW-2_013124	DUP01_013124	MW-2_042524
			Sample Date	10/19/2021	10/20/2022	10/20/2022 Result	01/26/2023 Result	04/26/2023	07/27/2023 Result	10/23/2023 Result	01/31/2024 Result	01/31/2024 Result	04/25/2024 Result
Volatile Organic Compounds			Unit	Result	Result	nesuit	nesuit	Result	nesuit	nesuit	nesuit	nesuit	nesuit
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1 5	ug/l	<15 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
1,1-Dichloroethane 1,1-Dichloroethene	75-34-3 75-35-4	5 5	ug/l ug/l	<25 U <5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	130	1.4 J	4.2 J	<2 U	<2 U	2.6	6.2	6.1 J	1.3 J	28
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	120-82-1 95-63-6	5 5	ug/l	<25 U 1,900	<2.5 U 10 J	<2.5 U 34 J	<2.5 U 12	<2.5 U 15	<2.5 U 80	<2.5 U 37	<2.5 U 110 J	<2.5 U 52 J	<2.5 U 97
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<20 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<10 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	540	3.5 J	8 J	2.5	2.4 J	11	2.5	11 J	6.9 J	3.2
1,3-Dichlorobenzene 1,3-Dichloropropane	541-73-1 142-28-9	3 5	ug/l ug/l	<25 U <25 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	NS	ug/l	270	<2 U	0.72 J	1.4 J	0.85 J	1.4 J	0.91 J	2.5	1.1 J	7
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	<2,500 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene 2-Hexanone (MBK)	95-49-8	5 50	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Chlorotoluene	591-78-6 106-43-4	50	ug/l ug/l	<50 U <25 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	800	7.4 J	15 J	6.2	9.7	44	13	51 J	30 J	38
Acetone	67-64-1	50	ug/l	<50 U	56	63	4.4 J	12 J	37	3.8 J	<5 UJ	19 J	12
Acrylonitrile	107-13-1	5	ug/l	<50 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	71-43-2	1	ug/l	2.1 J	0.69	0.35 J	0.51	0.82	0.6	<0.5 U	0.18 J	0.31 J	<0.5 U
Bromobenzene	108-86-1	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane Bromodichloromethane	74-97-5 75-27-4	5 50	ug/l	<25 U <5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U
Bromoform	75-25-2	50	ug/l ug/l	<20 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bromomethane	74-83-9	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	1.3 J	2.6 J	0.85 J	1.2 J	1.1 J
Carbon Disulfide	75-15-0	60	ug/l	<50 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane Chloroform	75-00-3 67-66-3	5 7	ug/l ug/l	<25 U <25 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
Chloromethane	74-87-3	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cymene	99-87-6	5	ug/l	<25 U	<2.5 U	0.7 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	1.2 J	<2.5 U	2 J
Dibromochloromethane Dibromomethane	124-48-1	50 5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dichlorodifluoromethane	74-95-3 75-71-8	5 5	ug/l ug/l	<50 U <50 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U	<5 U <5 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	5	ug/l	890	5.9	4	5.8	11	41	3.2	16	19	6.3
Hexachlorobutadiene	87-68-3	0.5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	5 5	ug/l	190 2,300	3 16	3.5	3.2 12	5.2 19	22	8.3	26 J	18 J	17
M,P-Xylene Methyl Ethyl Ketone (2-Butanone)	179601-23-1 78-93-3	50	ug/l ug/l	<50 U	<5 UJ	14 21 J	<5 U	<5 U	70 27	2.3 J <5 ∪	32 <5 UJ	36 13 J	2 J <5 ∪
Methyl Isobutyl Ketone (2-Butanone)	108-10-1	NS	ug/l	<50 U	1.5 J	<5 U	<5 U	1.7 J	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride	75-09-2	5	ug/l	<25 U	1 J	<2.5 U	0.92 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	0.79 J	<2.5 U
Naphthalene	91-20-3	10	ug/l	460 J	<2.5 U	3	<2.5 U	<2.5 U	1.4 J	<2.5 U	1.6 J	0.86 J	1 J
n-Butylbenzene	104-51-8	5	ug/l	25	<2.5 U	0.93 J	<2.5 U	<2.5 U	0.7 J	<2.5 U	1.4 J	<2.5 U	3.2
n-Propylbenzene	103-65-1	5	ug/l	370	2.8 J	5.7 J	2.7	4.5	23	9.5	37 J	19 J	40
o-Xylene (1,2-Dimethylbenzene) Sec-Butylbenzene	95-47-6 135-98-8	5 5	ug/l ug/l	410 18 J	2 J <2.5 ∪	1.9 J 0.83 J	1.5 J <2.5 U	2.1 J <2.5 ∪	7.5 0.93 J	<2.5 U 0.84 J	3.7 1.9 J	4.2 <2.5 ∪	<2.5 U 3.5
Sec-Butylbenzene Styrene	100-42-5	5	ug/l ug/l	<25 U	<2.5 U <2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	3.5 <2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	108-88-3	5 NC	ug/l	130	0.7 J	1 J	<2.5 U	0.79 J	1.2 J	<2.5 U	<2.5 U	0.74 J	<2.5 U
Total 1,2-Dichloroethene (Cis and Trans) Total Xylenes	540-59-0 1330-20-7	NS 5	ug/l	<25 U 2,700	<2.5 U	<2.5 U 16 J	<2.5 U 14 J	<2.5 U 21 J	<2.5 U 78	<2.5 U 2.3 J	<2.5 U 36	<2.5 U 40	<2.5 U 2 J
Total Xylenes Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l ug/l	2,700 <5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	< 0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	5	ug/l	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5 NC	ug/l	<25 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4 75-01-4	NS 2	ug/l ug/l	<50 U <10 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U
Vinyl Chloride					< 1 []	< (()	< 1 11	< ())	< 1 ()	< 1 ()	< 1 []		< 1 ()

Langan Project No.: 170472002															
			Sampling Event	Baseline	Quarter 1	Quarter 2	Quarter 3	Quarter 3	Baseline	Baseline	Quarter 1	Quarter 2	Quarter 2	Quarter 3	Quarter 4
	CAS	NYSDEC	Location	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Analyte	Number	SGVs	Sample Name Sample Date	MW03_100721 10/07/2021	MW-3_102122 10/21/2022	MW-3_012623 01/26/2023	MW-3_042623 04/26/2023	DUP01_042623 04/26/2023	MW04_100721 10/07/2021	GWDUP01_100721 10/07/2021	MW-4_102122 10/21/2022	MW-4_012623 01/26/2023	DUP01_012623 01/26/2023	MW-4_042623 04/26/2023	MW-4_072723 07/27/2023
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds			2												
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,1,1-Trichloroethane	71-55-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	5	ug/l	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U	<0.5 U <1.5 U				
1,1-Dichloroethane	75-34-3	5	ug/l ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,1-Dichloroethene	75-35-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
1,1-Dichloropropene	563-58-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2,4,5-Tetramethylbenzene 1,2,4-Trichlorobenzene	95-93-2 120-82-1	5	ug/l ug/l	2 <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U	<2 U <2.5 U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 ∪				
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,2-Dichloroethane	107-06-2	0.6	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
1,2-Dichloropropane 1,3,5-Trimethylbenzene (Mesitylene)	78-87-5 108-67-8	5	ug/l ug/l	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U				
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,3-Dichloropropane	142-28-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,4-Dichlorobenzene	106-46-7	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
1,4-Diethyl Benzene	105-05-5	NS	ug/l	2.1 J	<2 U	<2 U	<2 U	<2 U	5.3	5.3 J	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	<250 UJ	<250 U	<250 U	<250 U	<250 U	<250 UJ	<250 UJ	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane 2-Chlorotoluene	594-20-7 95-49-8	5 5	ug/l ug/l	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U				
2-Hexanone (MBK)	591-78-6	50	ug/l	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
4-Ethyltoluene	622-96-8	NS	ug/l	0.9 J	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Acetone	67-64-1	50	ug/l	2.9 J	1.8 J	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Acrylonitrile	107-13-1	5	ug/l	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene Bromohonzone	71-43-2 108-86-1	1 5	ug/l	0.16 J <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	0.17 J <2.5 U	0.2 J <2.5 ∪	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U
Bromobenzene Bromochloromethane	74-97-5	5 5	ug/l ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U <2.5 U				
Bromodichloromethane	75-27-4	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
Bromoform	75-25-2	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U				
Bromomethane	74-83-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Carbon Disulfide	75-15-0	60	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U				
Carbon Tetrachloride	56-23-5	5 5	ug/l	<0.5 U <2.5 U	<0.5 U	<0.5 U	<0.5 U <2.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U	<0.5 U
Chlorobenzene Chloroethane	108-90-7 75-00-3	5 5	ug/l ug/l	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
Chloroform	67-66-3	7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Chloromethane	74-87-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
Cymene	99-87-6 124-48-1	5 50	ug/l	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U				
Dibromochloromethane Dibromomethane	74-95-3	50	ug/l ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U				
Dichlorodifluoromethane	75-71-8	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U				
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Ethylbenzene	100-41-4	5	ug/l	4.8	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Isopropylbenzene (Cumene) M,P-Xylene	98-82-8 179601-23-1	5 5	ug/l ug/l	3.8 <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<5 U	<2.5 UJ	<5 U	<2.5 U	<5 U	<5 U	<5 U	<5 UJ	<2.5 U	<5 U	<2.5 U	<5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U				
Methylene Chloride	75-09-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Naphthalene	91-20-3	10	ug/l	2 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	0.95 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	5	ug/l	<2.5 U	0.88 J	0.87 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
n-Propylbenzene o-Xylene (1,2-Dimethylbenzene)	103-65-1 95-47-6	5 5	ug/l	9.4 J <2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	5	ug/l ug/l	<2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U 3	<2.5 U 3	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U	<2.5 U	<2.5 U <2.5 U
Styrene	100-42-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
T-Butylbenzene	98-06-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
Toluene	108-88-3	5 NC	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Total 1,2-Dichloroethene (Cis and Trans) Total Xylenes	540-59-0 1330-20-7	NS 5	ug/l ug/l	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U				
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Trichloroethene (TCE)	79-01-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U				
Trichlorofluoromethane	75-69-4	5 NC	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U				
Vinyl Acetate Vinyl Chloride	108-05-4 75-01-4	NS 2	ug/l ug/l	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U	<5 U <1 U				
virryi Cilionas	70-01-4	۷.	uy/ı	<1 U	<1 U	<1 U	<1 U	< 1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<10

27-01 Jackson Avenue Long Island City, New York NYSDEC BCP Site No.: C241209 Langan Project No.: 170472002

Notes:

CAS - Chemical Abstract Service

NS - No standard

ug/l - microgram per liter

NA - Not analyzed

RL - Reporting limit

<RL - Not detected

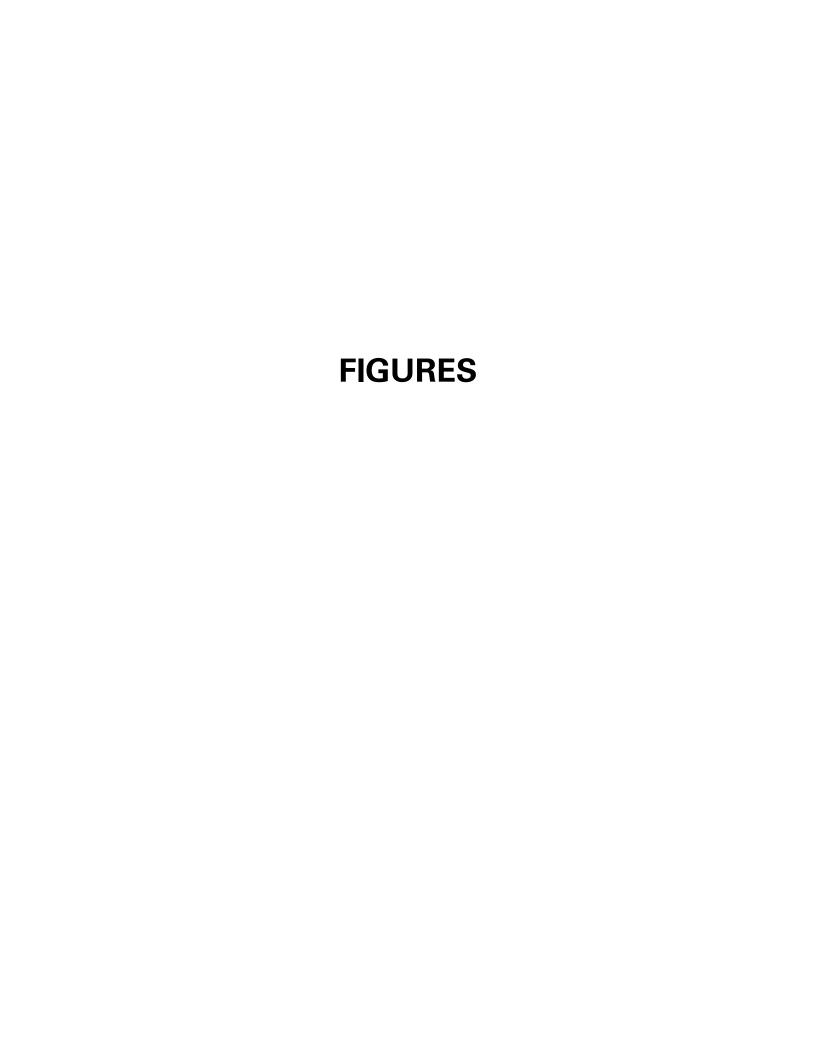
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").

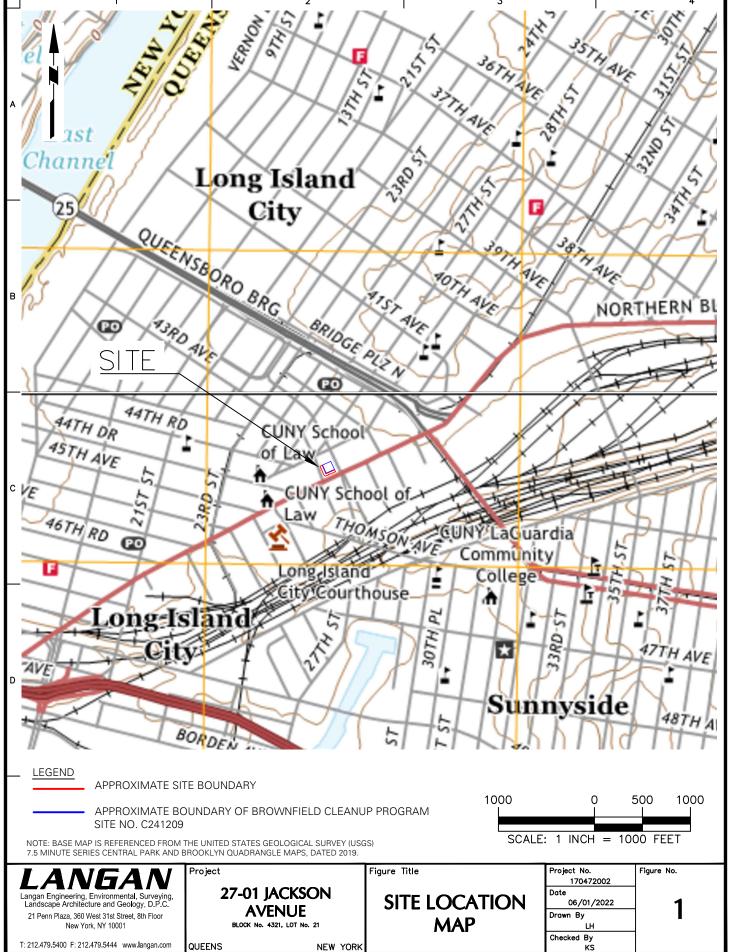
Qualifiers:

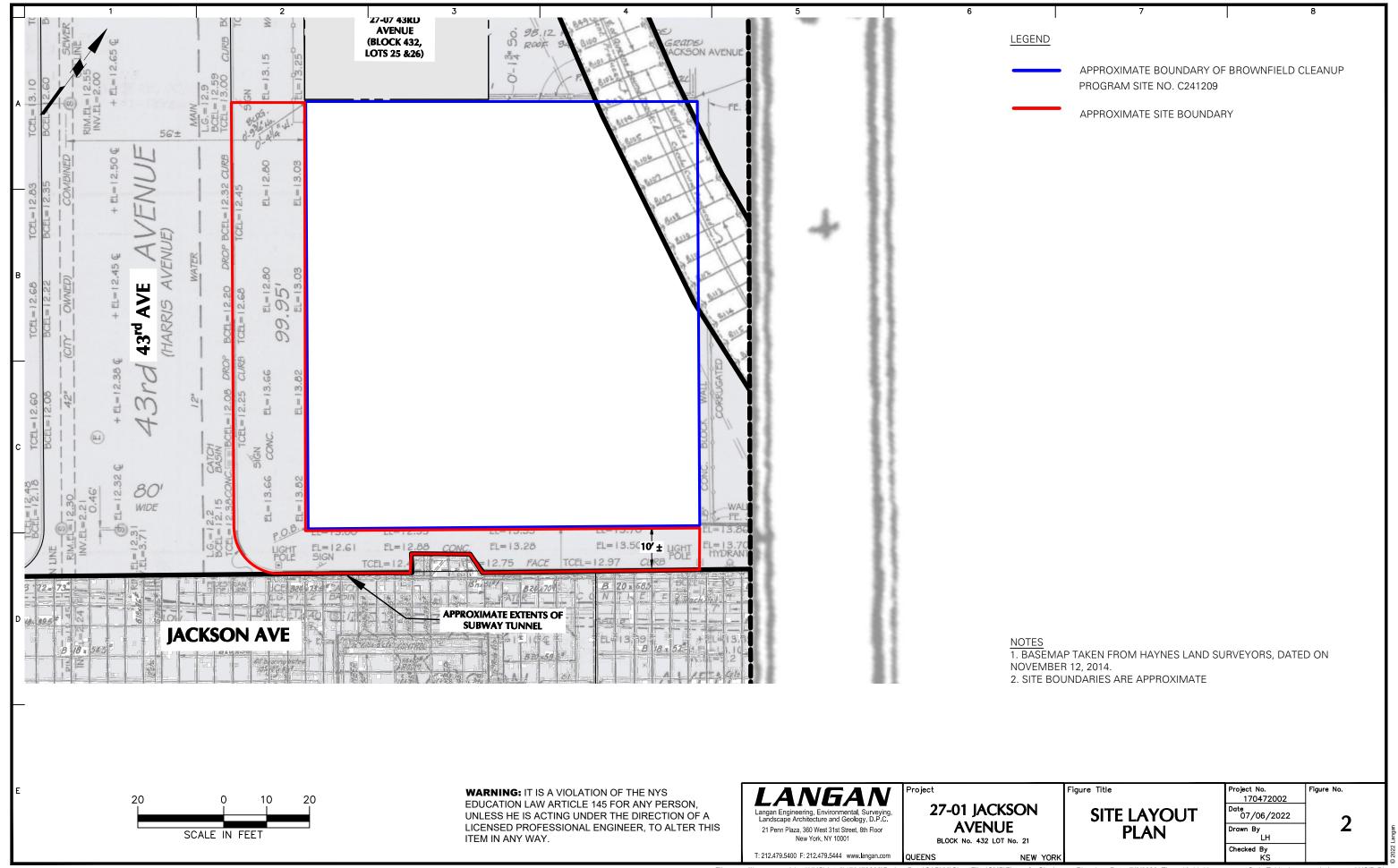
- J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
- U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

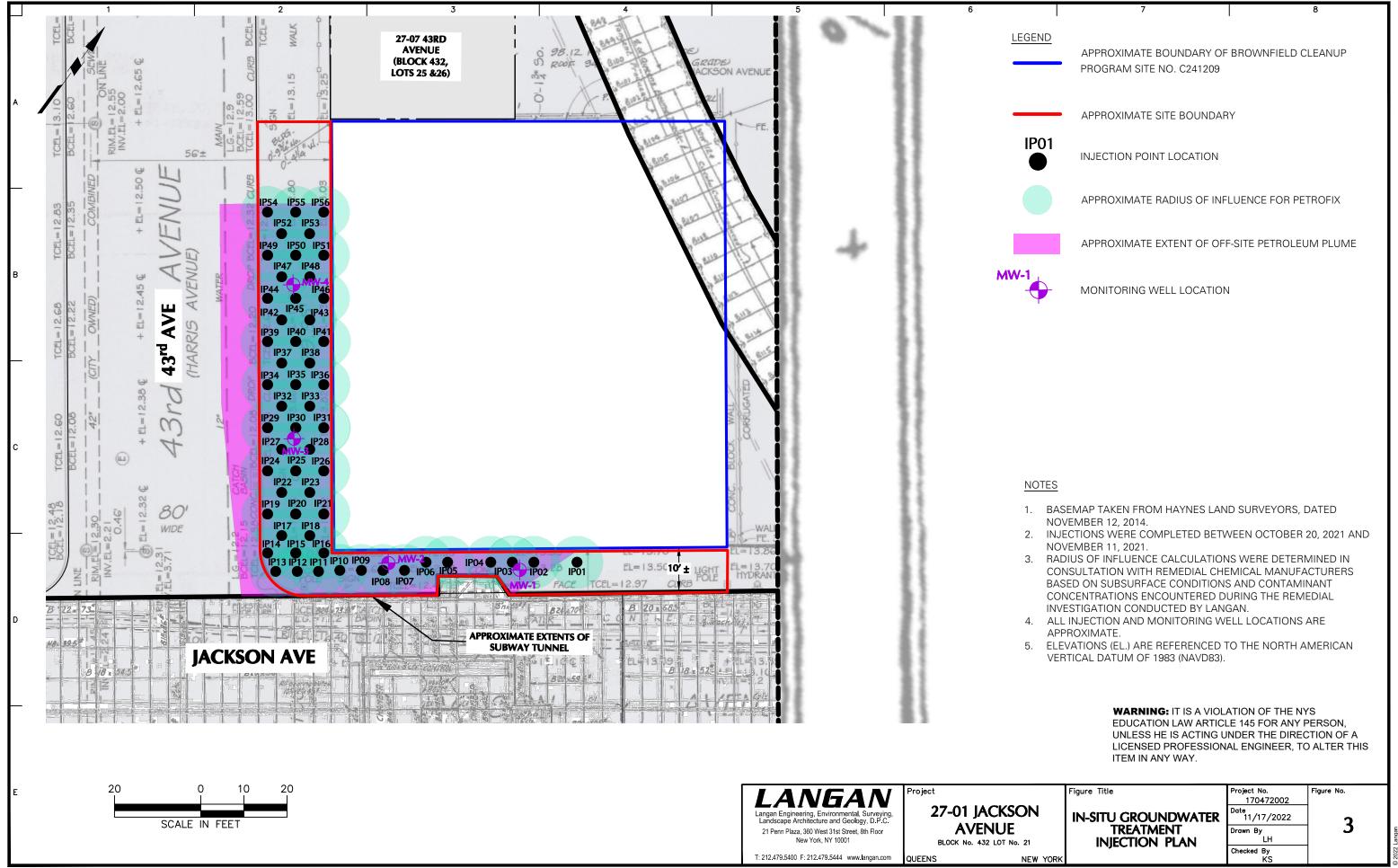
Exceedance Summary:

- Result exceeds NYSDEC SGVs









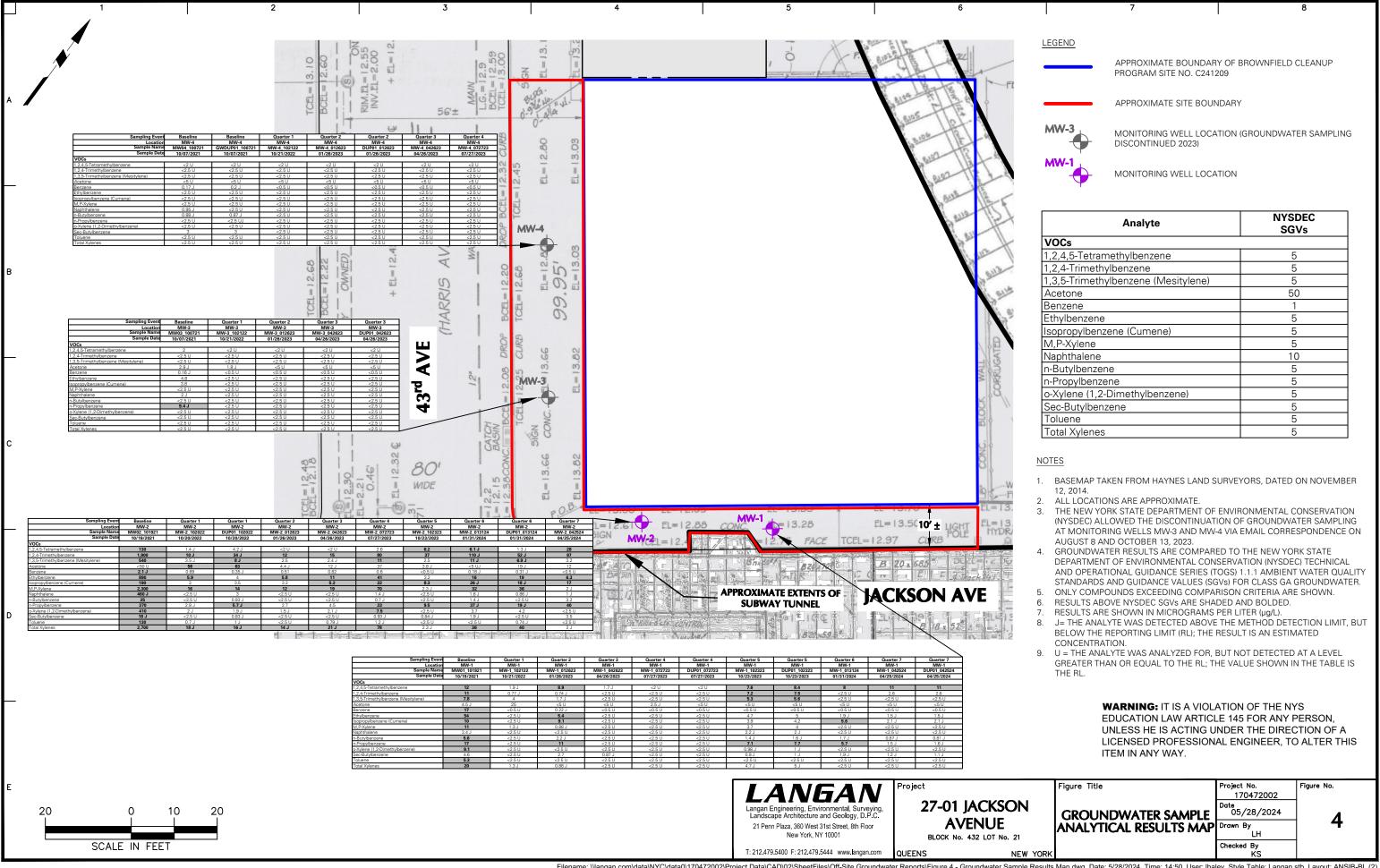


Figure 5 Quarterly Groundwater Monitoring Report Groundwater Sample Analytical Results Trends

MW-1 Groundwater Trends - VOCs

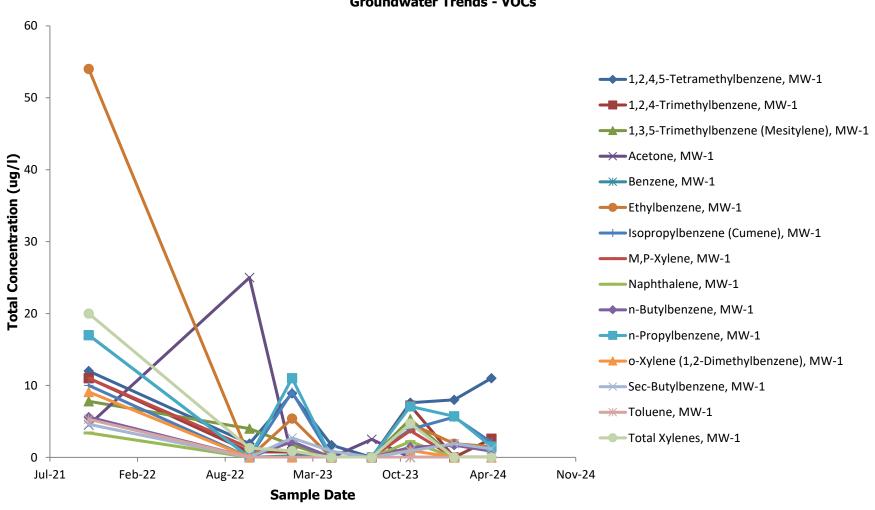


Figure 5
Quarterly Groundwater Monitoring Report
Groundwater Sample Analytical Results Trends

MW-2 Groundwater Trends - VOCs

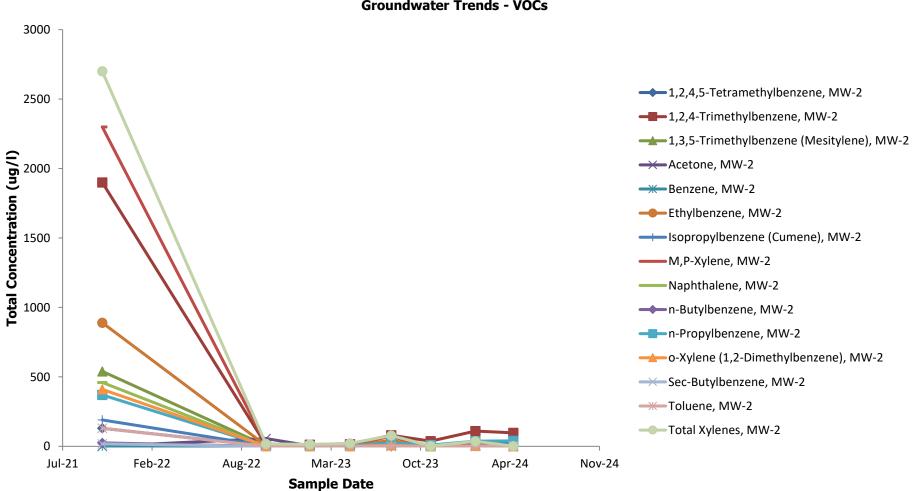


Figure 5
Quarterly Groundwater Monitoring Report
Groundwater Sample Analytical Results Trends

MW-3 Groundwater Trends - VOCs

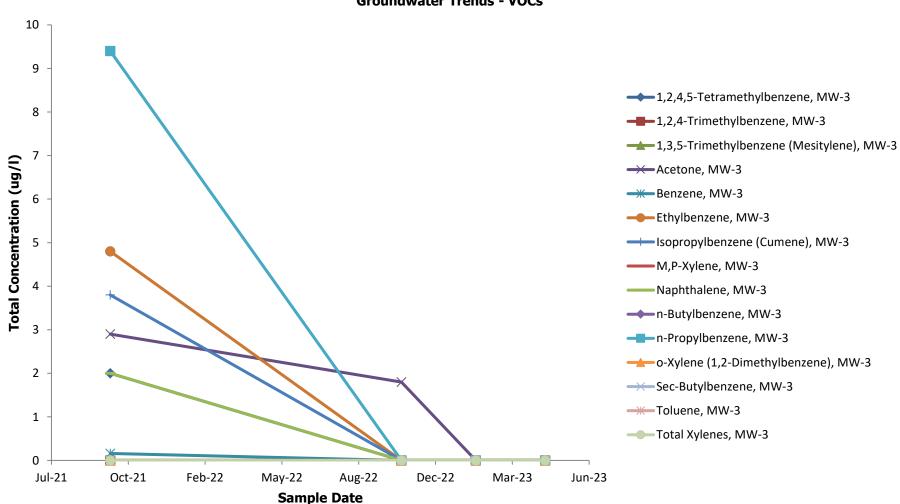
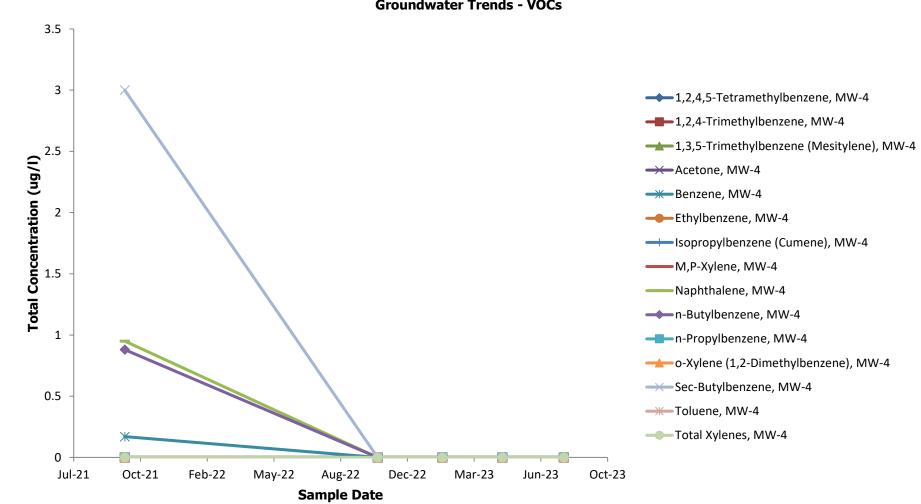


Figure 5
Quarterly Groundwater Monitoring Report
Groundwater Sample Analytical Results Trends

MW-4 Groundwater Trends - VOCs



ATTACHMENT A NYSDEC Correspondence for MW-3 and MW-4 Monitoring

Ali Reach

To: Lexi Haley

Subject: RE: 27-01 Jackson Avenue Off-site (S241209) - Off-Site Well Monitoring Program

Meeting

From: Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov>

Sent: Tuesday, August 8, 2023 10:30 AM **To:** Lexi Haley < lhaley@langan.com>

Cc: Brian Gochenaur < <u>bgochenaur@Langan.com</u>>; Obligado, Andre A (DEC) < <u>andre.obligado@dec.ny.gov</u>>; Kenney, Julia

M (HEALTH) < julia.kenney@health.ny.gov>

Subject: [External] RE: 27-01 Jackson Avenue Off-site (S241209) - Off-Site Well Monitoring Program Meeting

Lexi:

As discussed during our telecon last Friday 8/5 this change in sampling protocol for the 27-01 Jackson Avenue Off-site site S241209 is acceptable. There is no need to replace MW-3.

Thanks,

Shaun

Shaun Bollers

Assistant Environmental Engineer, Division of Environmental Remediation New York State Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4096 | F: (718) 482-6358 | shaun.bollers@dec.ny.gov

www.dec.ny.gov





From: Lexi Haley < lhaley@langan.com Sent: Tuesday, August 8, 2023 9:34 AM

To: Bollers, Shaun (DEC) < <u>shaun.bollers@dec.ny.gov</u>> **Cc:** Brian Gochenaur < <u>bgochenaur@Langan.com</u>>

Subject: RE: 27-01 Jackson Avenue (C241209) - Off-Site Well Monitoring Program Meeting

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

Good morning Shaun,

As discussed during our call on Friday, monitoring well MW-3 (located along 43rd Avenue) was destroyed during installation of utilities beneath the sidewalk and was not able to be sampled from during the Q4 event. In

the previous three quarters of groundwater monitoring, VOC concentrations were non-detect in samples collected from MW-3. As such, we are requesting to stop monitoring at MW-3.

We will continue to monitor VOC concentrations in groundwater from monitoring wells MW-1, MW-2, and MW-4 on a quarterly basis.

Thank you,

Lexi Haley Senior Staff Engineer

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From: Lexi Haley

Sent: Tuesday, August 1, 2023 2:13 PM

To: 'Bollers, Shaun (DEC)' < shaun.bollers@dec.ny.gov **Cc:** Brian Gochenaur bgochenaur@Langan.com

Subject: RE: 27-01 Jackson Avenue (C241209) - Off-Site Well Monitoring Program Meeting

Thanks Shaun – I will send out the meeting invite for Friday.

Lexi Haley Senior Staff Engineer

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From: Bollers, Shaun (DEC) < shaun.bollers@dec.ny.gov>

Sent: Tuesday, August 1, 2023 2:00 PM

To: Lexi Haley < lhaley@langan.com>

Cc: Brian Gochenaur <bgochenaur@Langan.com>

Subject: [External] RE: 27-01 Jackson Avenue (C241209) - Off-Site Well Monitoring Program Meeting

Hi Lexy:

Friday 8/4 would be fine.

Shaun

Shaun Bollers

Assistant Environmental Engineer, Division of Environmental Remediation **New York State Department of Environmental Conservation** 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4096 | F: (718) 482-6358 | shaun.bollers@dec.ny.gov

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From: Lexi Haley < lhaley@langan.com> Sent: Tuesday, August 1, 2023 11:38 AM

To: Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov> Cc: Brian Gochenaur <bgochenaur@Langan.com>

Subject: 27-01 Jackson Avenue (C241209) - Off-Site Well Monitoring Program Meeting

Ηi

Good morning Shaun,

Brian and I would like to set up a call with you to discuss the off-site well monitoring program at 27-01 Jackson Avenue (BCP Site No. C241209). We are available between 12 pm and 2:30 pm on Thursday (8/3) and between 11 am and 12 pm on Friday (8/4). Do either of these time slots work for you? If not, we can schedule something for next week.

Thank you,

Lexi Haley Senior Staff Engineer

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Caroline Devin

From: Caroline Devin

Sent: Wednesday, November 8, 2023 5:18 PM

To: Caroline Devin

Subject: FW: 27-01 Jackson Avenue (C241209) - Q4 Off-Site Quarterly GW Monitoring Report

From: Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov>

Sent: Friday, October 13, 2023 10:10 AM To: Lexi Haley < lhaley@langan.com>

Cc: Kimberly Semon ksemon@langan.com; Obligado, Andre A (DEC) andre.obligado@dec.ny.gov Subject: [External] RE: 27-01 Jackson Avenue (C241209) - Q4 Off-Site Quarterly GW Monitoring Report

Good Morning Lexi:

NYSDEC has no objections to this change in the sampling protocol as the MW-4 groundwater samples have shown non-detect for 4 consecutive quarters.

BTW How far has the on-site construction progressed?

Regards,

Shaun

Shaun Bollers

Assistant Environmental Engineer, Division of Environmental Remediation **New York State Department of Environmental Conservation** 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4096 | F: (718) 482-6358 | shaun.bollers@dec.ny.gov

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From: Lexi Haley < lhaley@langan.com> Sent: Wednesday, October 11, 2023 3:12 PM

To: Bollers, Shaun (DEC) < shaun.bollers@dec.ny.gov >

Cc: Kimberly Semon <ksemon@langan.com>

Subject: RE: 27-01 Jackson Avenue (C241209) - Q4 Off-Site Quarterly GW Monitoring Report

Good afternoon Shaun,

I hope you are doing well!

We are planning to schedule the next quarterly sampling event at 27-01 Jackson Avenue for the week of October 23rd. As noted in the Q4 Off-Site Quarterly GW Monitoring Report, groundwater results from MW-4 have been non-detect for consecutive quarters and we are requesting to conduct further monitoring only in MW-1 and MW-2.

Please let us know if you have any objections to this plan.

Thank you,

Lexi Haley Senior Staff Engineer

LANGAN

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ATHENS CALGARY DUBAI LONDON PANAMA

From: Lexi Haley

Sent: Friday, September 15, 2023 1:58 PM

Subject: 27-01 Jackson Avenue (C241209) - Q4 Off-Site Quarterly GW Monitoring Report

Good afternoon Shaun,

Please see below for a link to the quarterly sampling report for 27-01 Jackson Avenue. Please note that, since groundwater results from MW-4 have been non-detect for consecutive quarters, we are requesting to conduct further monitoring only in MW-1 and MW-2.

https://clients.langan.com/Sharing/filesharing/ViewPosted?transactionHash=1122680310

Let us know if you have any questions.

Have a great weekend,

Lexi Haley Senior Staff Engineer

LANGAN

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ATTACHMENT B Daily Site Observation Report



SITE OBSERVATION REPORT

PROJECT No.: 170472002 CLIENT: DATE: PROJECT: 27-01 Jackson Avenue 2701 Jackson Avenue LLC 04/25/24 LOCATION: Long Island City, NY LANGAN **CONTRACTOR:** Lions Group NYC Ali Reach REP.: CONTRACTOR'S EQUIPMENT: PRESENT AT SITE:

Ali Reach - Langan N/A

Michael Capozzoli- Lions Group NYC (Construction Manager)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was present to observe environmental protocols in accordance with the January 2021 NYSDEC approved Off-Site Site Management Plan (OSMP) for BCP site C241209 at 27-01 Jackson Avenue (Block 432, Lot 21). Observed activities were as follows:

Site Activities

Langan used a peristaltic pump to purge and sample groundwater monitoring wells MW-1 and MW-2 along the Jackson Avenue sidewalk. Purged groundwater was screened for odors, sheen, and organic vapors using a photoionization detector (PID). Odors, sheen or PID readings above background levels were not observed in MW-2. A maximum PID reading of 5.5 parts per million (ppm) was detected beneath the well cap at MW-1; however, no odors or sheen was observed in the purged groundwater. Purged groundwater was containerized in a 55-gallon New York State Department of Transportation (NYSDOT)-approved drum for future disposal.

Sampling

Langan collected two groundwater samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis of NYSDEC Part 375/target compound list (TCL) volatile organic compounds (VOCs). The samples were submitted to Alpha Analytical Inc. (Alpha) of Mahwah, New Jersey, a New York State Department of Health (NYSDOH) Environmental Laboratory Accredited Program (ELAP)-certified laboratory under standard chain-of-custody protocols.

Anticipated Activities

The next groundwater sampling event will take place in July 2024.

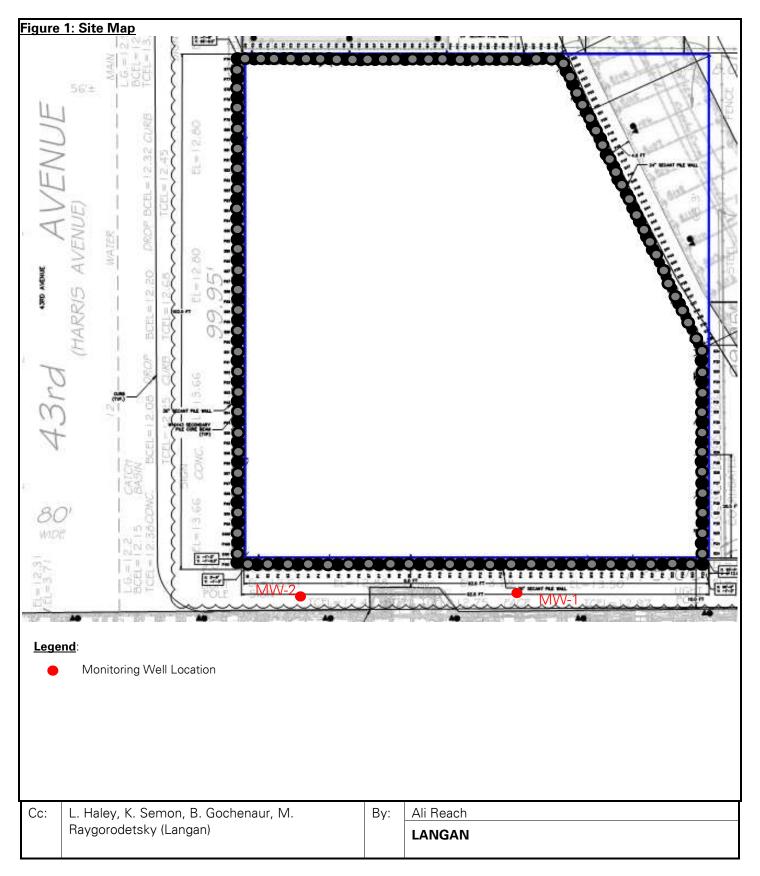
Cc:	L. Haley, K. Semon, B. Gochenaur, M.	Ву:	Ali Reach
	Raygorodetsky (Langan)		LANGAN



Langan PN: 170472002

04/25/24 Page 2 of 3

SITE OBSERVATION REPORT





Langan PN: 170472002

04/25/24 Page 3 of 3

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: View of Langan purging monitoring well MW-2 along the Jackson Avenue sidewalk (facing southwest).

Cc:	L. Haley, K. Semon, B. Gochenaur, M.	Ву:	Ali Reach
	Raygorodetsky (Langan)		LANGAN

ATTACHMENT C Well Purging and Sampling Logs

Project Information		Well Info	rmation	Eq	uipment Informati	on	Sampling Conditions			Sampling Informa	tion	
Project Name:	27-01 Jackson Ave	Well No:	MW-1	Water Qua	lity Device Model:	Horiba U-52		Weather:	Sunny, 41-56 °F		MW-1_042524	
Project Number:	170472002	Well Depth:	19 ft		Pine Number:	216089	Backg	round PID (ppm):	0.0	Sample(s):	DUP01_042524	
Site Location:	Long Island City, NY	Well Diameter:	2-inch	Pump	Make and Model:	Peristaltic Pump	PID Beneath	Inner Cap (ppm):	5.5		DOP01_042524	
Sampling	Ali Reach	Well Screen	9 ft		Pine Number:	44284	Pu	mp Intake Depth:	16.00	Sample Date:	4/25/2024	
Personnel:	All Heach	Interval:	19 ft		Tubing Diameter:			ter Before Purge:	11.69	Sample Time:	12:35	
	STABILIZATION = 3 successive readings within limits											
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate	0 10	NOTES		
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		0. 1 13	
							Drawdown < 0.33	.51 /	Discharge		Stabilized?	
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	NTU	0.5 mg/l	ft	<0.13 gpm)	Volume (Gal)	color, odor etc.		
•	BEGIN PURGING											
11:30	13.02	7.40	54	2.230	14.2	0.69	11.69	N/A	0.00	orongo boigo motorial	N	
11:35	13.00	7.33	55	2.240	10.7	0.83	11.79	0.05	0.25	orange-beige material	N	
11:40	12.62	7.86	51	2.290	8.4	0.00	11.80	0.05	0.50		N	
11:45	12.46	7.18	51	2.300	8.5	0.00	11.80	0.05	0.75		N	
11:50	12.59	7.18	50	2.300	8.3	0.00	11.80	0.05	1.00		N	
11:55	12.52	7.17	41	2.320	15.0	0.00	11.80	0.05	1.25		N	
12:00	12.50	7.16	37	2.340	28.1	0.00	11.81	0.05	1.50		N	
12:05	12.50	7.18	33	2.350	13.2	0.00	11.81	0.05	1.75	clear, no odor	N	
12:10	12.49	7.17	33	2.350	10.4	0.00	11.81	0.05	2.00		N	
12:15	12.44	7.16	20	2.360	18.6	0.00	11.81	0.05	2.25		N	
12:20	12.46	7.18	19	2.360	20.4	0.00	11.20	0.05	2.50		N	
12:25	12.48	7.18	15	2.360	18.6	0.00	11.20	0.05	2.75		N	
12:30	12.49	7.16	20	2.360	19.6	0.00	11.20	0.05	3.00		N	

Additional water quality parameters were not monitored due to poor recharge of the well. Groundwater sample was collected after one hour of continuous purging.

- 1. Well depths and groundwater depths were measured in feet below the top of well casing.
- 2. Well and tubing diameters are measured in inches.
- 3. PID = Photoionization Detector
- 4. PPM = Parts per million
- 5. pH = Hydrogen ion concentration
- 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- 8. DTW = Depth to water
- 9. mS/cm = milli-Siemens per centimeter
- 10. NTU = Nephelometric Turbidity Unit
- 11. N/A = Not Applicable

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

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Project Information		Well Info	rmation		Equipment Informa	tion		Sampling Condition	S	Sampling Information	
Project Name:	27-01 Jackson Ave	Well No:	MW-2	Water Qua	lity Device Model:	Horiba U-52		Weather:	Sunny, 41-56 °F		MW-2_042524
Project Number:	170472002	Well Depth:	20 ft		Pine Number:		Back	ground PID (ppm):	0.0	Sample(s):	and MS/MSD
Site Location:	Long Island City, NY	Well Diameter:	1-inch	Pump	Pump Make and Model:		PID Beneat	h Inner Cap (ppm):	0.0		and Monto
Sampling	Ali Reach	Well Screen	10 ft		Pine Number:	44284	Pi	ump Intake Depth:	16.5 ft	Sample Date:	4/25/2024
Personnel:	All Neach	Interval:	20 ft		Tubing Diameter:	3/8-inch OD	Depth to W	ater Before Purge:	12.30 ft	Sample Time:	10:30
a											
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative		0. 1.111 12
					(+/- 10%) above	(+/- 10%) above	Drowdown		Discharge		Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	< 0.33 ft	(<0.13 gpm)	Volume (Gal)	color, odor etc.	
		· · ·				BEGIN PURGING					
10:00	12.30	11.44	87	1.72	52.3	2.02	N/A	N/A	0.0		N
10:05	12.11	11.45	80	1.73	51.0	1.52	N/A	0.05	0.25		N
10:10	12.68	10.71	23	1.45	10.2	5.40	N/A	/A 0.05		alaar watar na adara/ahaan	N
10:15	12.71	10.72	19	1.43	4.5	5.75	N/A 0.05		0.75	clear water, no odors/sheen	N
10:20	12.69	10.74	17	1.43	3.4	5.27	N/A 0.05		1		N
10:25	12.72	10.70	14	1.41	0.2	5.54	N/A	0.05	1.25		Υ

- Notes:

 1. Well depths and groundwater depths were measured in feet below the top of well casing.

 2. Well and tubing diameters are measured in inches.

 3. PID = Photoionization Detector

 4. PPM = Parts per million

 5. PIJ = Hydrogen ion concentration

- 4. PPM = Parts per million
 5. pH = Hydrogen ion concentration
 6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
 8. DTW = Depth to water
 9. mS/cm = milli-Siemens per centimeter
 10. NTU = Nephelometric Turbidity Unit
 11. N/A = Not Applicable

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

ATTACHMENT D Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number: L2422775

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Report Date: 05/02/24

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

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

ALPHA ANALYTISAL **Project Name:** 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775 **Report Date:** 05/02/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422775-01	MW-1_042524	WATER	QUEENS, NY	04/25/24 12:35	04/25/24
L2422775-02	MW-2_042524	WATER	QUEENS, NY	04/25/24 10:30	04/25/24
L2422775-03	DUP01_042524	WATER	QUEENS, NY	04/25/24 00:00	04/25/24
L2422775-04	GWFB01_042524	WATER	QUEENS, NY	04/25/24 13:15	04/25/24
L2422775-05	GWTB01_042524	WATER	QUEENS, NY	04/25/24 13:30	04/25/24



L2422775

Lab Number:

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002 **Report Date:** 05/02/24

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: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number:

L2422775

Report Date:

05/02/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

The WG1915124-7 MSD recoveries, performed on L2422775-02, are outside the acceptance criteria for acetone (0%), isopropylbenzene (20%), n-propylbenzene (0%), 1,2,4-trimethylbenzene (0%), 4-ethyltoluene (0%), and 1,2,4,5-tetramethylbenzene (0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

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.

(attlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

Date: 05/02/24



ORGANICS



VOLATILES



L2422775

04/25/24 12:35

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

SAMPLE RESULTS

Report Date: 05/02/24

Lab Number:

Date Collected:

Lab ID: L2422775-01

Client ID: MW-1_042524 Sample Location: QUEENS, NY

Date Received: 04/25/24 Field Prep: Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/30/24 16:30

Analyst: MJV

Wolatile 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 Carbon tetrachloroper ND ug/l 0.50 0.14 1 Dibromochloromethane ND ug/l 0.50 0.15 1 1,1,2-Trichloroethane ND ug/l 0.50 0.18 1 1,1,2-Trichloroethane ND ug/l 0.50 0.18 1 Chloroberbaree ND ug/l 0.50 0.18 1 Trichloroffluoromethane ND ug/l 0.50 0.18 1 1,1-1-Trichloroethane ND ug/l 0.50 0.14 1 1,1-1-Trichloroethane ND ug/l 0.50 0.14 1 tears-1,3-Dic	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,1-Dichloroethane ND ug/l 2.5 0.70 1	Volatile Organics by GC/MS - Westl	oorough Lab					
Chlorotorm 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 0.50 0.18 1 1,1,2-Trichloroethane ND ug/l 0.50 0.18 1 Chlorobenzene ND ug/l 0.50 0.18 1 Chlorobenzene ND ug/l 0.50 0.18 1 Trichlorothane ND ug/l 0.50 0.18 1 1,1-Trichloroethane ND ug/l 0.50 0.13 1 1,1-Trichloroethane ND ug/l 0.50 0.13 1 Bromodichloromethane ND ug/l 0.50 0.19 1 trans-1,3-Dichloropropene ND ug/l 0.50 0.14<	Methylene chloride	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 0.50 0.18 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-Trichloroethane ND ug/l 0.50 0.13 1 1,1-Trichloroethane ND ug/l 0.50 0.13 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 </td <td>1,1-Dichloroethane</td> <td>ND</td> <td></td> <td>ug/l</td> <td>2.5</td> <td>0.70</td> <td>1</td>	1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
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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 0.50 0.13 1 Bromodichloromethane ND ug/l 0.50 0.19 1 Bromodichloropropene ND ug/l 0.50 0.19 1 1,3-Dichloropropene ND ug/l 0.50 0.14 1 1,3-Dichloropropene ND ug/l 0.50 0.14 1 1,1-Dichloropropene ND ug/l 0.50 0.14 1 1,1-Dichloropropene ND ug/l 0.50 0.14 1 1,1,1-Z-Tetrachloroethane ND ug/l 0.50	1,2-Dichloropropane	ND		ug/l	1.0	0.14	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 trans-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, Total ND ug/l 2.5 0.70 1 Bromoform ND ug/l 2.5 0.70 1 Bromoform ND ug/l 2.5 0.70 1 Benzene ND ug/l 2.5 0.70 </td <td>Dibromochloromethane</td> <td>ND</td> <td></td> <td>ug/l</td> <td>0.50</td> <td>0.15</td> <td>1</td>	Dibromochloromethane	ND		ug/l	0.50	0.15	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 ND ug/l 0.50 0.14 1 1,1-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 2.5 0.70 1 Benzene ND ug/l 0.50 0.17 1 Ethylbenzene 1.5 J ug/l 2.5	1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	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 Bromodichloropropene ND ug/l 0.50 0.16 1 trans-1,3-Dichloropropene ND ug/l 0.50 0.14 1 cis-1,3-Dichloropropene ND ug/l 0.50 0.14 1 1,3-Dichloropropene ND ug/l 0.50 0.14 1 1,1-Dichloropropene ND ug/l 0.50 0.14 1 1,1-Dichloropropene ND ug/l 0.50 0.14 1 1,1-Dichloropropene ND ug/l 0.50 0.17 1 Bromoform ND ug/l 0.50 0.17 1 Benzene ND ug/l 0.50 <t< td=""><td>Tetrachloroethene</td><td>ND</td><td></td><td>ug/l</td><td>0.50</td><td>0.18</td><td>1</td></t<>	Tetrachloroethene	ND		ug/l	0.50	0.18	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, Total ND ug/l 2.5 0.70 1 Bromoform ND ug/l 2.5 0.70 1 1,1-2-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 1.5 J ug/l 2.5 0.70 1 Chloromethane ND ug/l 2.5 0.70 1 Vinyl chloride ND ug/l 2.5	Chlorobenzene	ND		ug/l	2.5	0.70	1
1,1,1-Trichloroethane	Trichlorofluoromethane	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 1.5 J ug/l 2.5 0.70 1 Chloromethane ND ug/l 2.5 0.70 1 Winyl chloride ND ug/l 2.5 0.70 1 Chloromethane ND ug/l 2.5 0.70	1,2-Dichloroethane	ND		ug/l	0.50	0.13	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 1.5 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 2.5 0.70 1 Chloroethane ND ug/l 2.5 0.70 <td< td=""><td>1,1,1-Trichloroethane</td><td>ND</td><td></td><td>ug/l</td><td>2.5</td><td>0.70</td><td>1</td></td<>	1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	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 1.5 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 2.5 0.70 1 Chloroethane ND ug/l 2.5 0.70 1 1,1-Dichloroethene ND ug/l 0.50 0.17 1	Bromodichloromethane	ND		ug/l	0.50	0.19	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 1.5 J ug/l 2.5 0.70 1 Chloromethane ND ug/l 2.5 0.70 1 Vinyl chloride ND ug/l 2.5 0.70 1 Chloroethane ND ug/l 2.5 0.70 1 1,1-Dichloroethene ND ug/l 2.5 0.70 1	trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	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 1.5 J ug/l 2.5 0.70 1 Chloromethane ND ug/l 2.5 0.70 1 Vinyl chloride ND ug/l 2.5 0.70 1 Chloroethane ND ug/l 1.0 0.07 1 1,1-Dichloroethene ND ug/l 2.5 0.70 1	cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	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 1.5 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	1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	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 1.5 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	1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Benzene ND ug/l 0.50 0.16 1 Toluene ND ug/l 2.5 0.70 1 Ethylbenzene 1.5 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	Bromoform	ND		ug/l	2.0	0.65	1
Toluene ND ug/l 2.5 0.70 1 Ethylbenzene 1.5 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	1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Ethylbenzene 1.5 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	Benzene	ND		ug/l	0.50	0.16	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	Toluene	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	Ethylbenzene	1.5	J	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	Chloromethane	ND		ug/l	2.5	0.70	1
Chloroethane ND ug/l 2.5 0.70 1 1,1-Dichloroethene ND ug/l 0.50 0.17 1	Bromomethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene ND ug/l 0.50 0.17 1	Vinyl chloride	ND		ug/l	1.0	0.07	1
	Chloroethane	ND		ug/l	2.5	0.70	1
trans-1,2-Dichloroethene 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: 27-01 JACKSON AVENUE Lab Number: L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-01 Date Collected: 04/25/24 12:35

Client ID: MW-1_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbore	ough Lab					
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	0.87	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.2	J	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	2.1	J	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: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-01 Date Collected: 04/25/24 12:35

Client ID: MW-1_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor						
Volatile Organics by GC/MS - West	Volatile Organics by GC/MS - Westborough Lab											
n-Propylbenzene	1.5	J	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	2.6		ug/l	2.5	0.70	1						
1,4-Dioxane	ND		ug/l	250	61.	1						
p-Diethylbenzene	3.5		ug/l	2.0	0.70	1						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1						
1,2,4,5-Tetramethylbenzene	11		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	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	111	70-130	
Toluene-d8	94	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	110	70-130	



04/25/24 10:30

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

SAMPLE RESULTS

Lab Number: L2422775

Date Collected:

Report Date: 05/02/24

Lab ID: L2422775-02

Client ID: MW-2_042524
Sample Location: QUEENS, NY

Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/30/24 17:19

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	6.3		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	1.1	J	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



L2422775

Project Name: 27-01 JACKSON AVENUE Lab Number:

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-02 Date Collected: 04/25/24 10:30

Client ID: MW-2_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboro	ugh Lab					
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	2.0	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	2.0	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	12		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	3.2		ug/l	2.5	0.70	1
sec-Butylbenzene	3.5		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	17		ug/l	2.5	0.70	1
p-Isopropyltoluene	2.0	J	ug/l	2.5	0.70	1
Naphthalene	1.0	J	ug/l	2.5	0.70	1



Project Name: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-02 Date Collected: 04/25/24 10:30

Client ID: MW-2_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	tborough Lab						
n-Propylbenzene	40		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	3.2		ug/l	2.5	0.70	1	
1,2,4-Trimethylbenzene	97		ug/l	2.5	0.70	1	
1,4-Dioxane	ND		ug/l	250	61.	1	
p-Diethylbenzene	7.0		ug/l	2.0	0.70	1	
p-Ethyltoluene	38		ug/l	2.0	0.70	1	
1,2,4,5-Tetramethylbenzene	28		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	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	108	70-130	



04/25/24 00:00

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Report Date: 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-03

Client ID: DUP01_042524 Sample Location: QUEENS, NY

Date Received: 04/25/24 Field Prep: Not Specified

Date Collected:

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/30/24 16:54

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough 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	1.5	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: 27-01 JACKSON AVENUE Lab Number: L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-03 Date Collected: 04/25/24 00:00

Client ID: DUP01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbor	ough Lab					
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	0.81	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.1	J	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	2.1	J	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: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-03 Date Collected: 04/25/24 00:00

Client ID: DUP01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - West	oorough Lab						
n-Propylbenzene	1.6	J	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	2.6		ug/l	2.5	0.70	1	
1,4-Dioxane	ND		ug/l	250	61.	1	
p-Diethylbenzene	3.5		ug/l	2.0	0.70	1	
p-Ethyltoluene	ND		ug/l	2.0	0.70	1	
1,2,4,5-Tetramethylbenzene	11		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	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	113	70-130	
Toluene-d8	93	70-130	
4-Bromofluorobenzene	93	70-130	
Dibromofluoromethane	113	70-130	



04/25/24 13:15

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

SAMPLE RESULTS

Lab Number: L2422775

Date Collected:

Report Date: 05/02/24

Lab ID: L2422775-04

Client ID: GWFB01_042524 Sample Location: QUEENS, NY

Date Received: 04/25/24 Field Prep: Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/30/24 15:41

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	n 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



L2422775

Project Name: 27-01 JACKSON AVENUE Lab Number:

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-04 Date Collected: 04/25/24 13:15

Client ID: GWFB01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbor	ough Lab					
Trichloroethene	ND		.ua/I	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	 1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND			2.5	0.70	1
o-Xylene	ND		ug/l ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND			2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l ug/l	2.5	0.70	1
Dibromomethane	ND			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
			ug/l			
Acetone Carbon disulfide	ND		ug/l	5.0	1.5	1
	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	
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	<u> </u>
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	<u> </u>
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: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-04 Date Collected: 04/25/24 13:15

Client ID: GWFB01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	stborough 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	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	91	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	114	70-130	



04/25/24 13:30

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Report Date: 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-05 Date Collected:

Client ID: Date Received: 04/25/24 GWTB01_042524 Field Prep: Sample Location: Not Specified QUEENS, NY

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/30/24 16:05

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough 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: 27-01 JACKSON AVENUE Lab Number: L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-05 Date Collected: 04/25/24 13:30

Client ID: GWTB01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

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



Project Name: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

SAMPLE RESULTS

Lab ID: L2422775-05 Date Collected: 04/25/24 13:30

Client ID: GWTB01_042524 Date Received: 04/25/24 Sample Location: QUEENS, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westh	orough 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	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	93	70-130	
4-Bromofluorobenzene	89	70-130	
Dibromofluoromethane	112	70-130	



Project Name: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 04/30/24 08:45

Analyst: PID

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	01-05 Batch:	WG1915124-5
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: 27-01 JACKSON AVENUE **Lab Number:** L2422775

Project Number: 170472002 **Report Date:** 05/02/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 04/30/24 08:45

Analyst: PID

Parameter	Result	Qualifier Units	RL	MDL	
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	01-05 Batch:	WG1915124-5	
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70	
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70	
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70	
Methyl tert butyl ether	ND	ug/l	2.5	0.17	
p/m-Xylene	ND	ug/l	2.5	0.70	
o-Xylene	ND	ug/l	2.5	0.70	
Xylenes, Total	ND	ug/l	2.5	0.70	
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70	
1,2-Dichloroethene, Total	ND	ug/l	2.5	0.70	
Dibromomethane	ND	ug/l	5.0	1.0	
1,2,3-Trichloropropane	ND	ug/l	2.5	0.70	
Acrylonitrile	ND	ug/l	5.0	1.5	
Styrene	ND	ug/l	2.5	0.70	
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	
Acetone	ND	ug/l	5.0	1.5	
Carbon disulfide	ND	ug/l	5.0	1.0	
2-Butanone	ND	ug/l	5.0	1.9	
Vinyl acetate	ND	ug/l	5.0	1.0	
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0	
2-Hexanone	ND	ug/l	5.0	1.0	
Bromochloromethane	ND	ug/l	2.5	0.70	
2,2-Dichloropropane	ND	ug/l	2.5	0.70	
1,2-Dibromoethane	ND	ug/l	2.0	0.65	
1,3-Dichloropropane	ND	ug/l	2.5	0.70	
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5	0.70	
Bromobenzene	ND	ug/l	2.5	0.70	
n-Butylbenzene	ND	ug/l	2.5	0.70	
sec-Butylbenzene	ND	ug/l	2.5	0.70	
tert-Butylbenzene	ND	ug/l	2.5	0.70	



L2422775

Lab Number:

Project Name: 27-01 JACKSON AVENUE

> Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 04/30/24 08:45

Analyst: PID

arameter	Result Q	ualifier Units	RL	MDL
olatile Organics by GC/MS - W	estborough Lab fo	r sample(s): 01-05	Batch:	WG1915124-5
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

		Acceptance
Surrogate	%Recovery Quali	-
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	91	70-130
Dibromofluoromethane	112	70-130



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Parameter	LCS %Recovery	Qual	LCSD %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-05 Batch: WC	G1915124-3 WG1915124-4		
Methylene chloride	99		100	70-130	1	20
1,1-Dichloroethane	110		100	70-130	10	20
Chloroform	100		97	70-130	3	20
Carbon tetrachloride	95		92	63-132	3	20
1,2-Dichloropropane	110		110	70-130	0	20
Dibromochloromethane	86		88	63-130	2	20
1,1,2-Trichloroethane	100		99	70-130	1	20
Tetrachloroethene	100		93	70-130	7	20
Chlorobenzene	99		92	75-130	7	20
Trichlorofluoromethane	95		91	62-150	4	20
1,2-Dichloroethane	93		93	70-130	0	20
1,1,1-Trichloroethane	97		94	67-130	3	20
Bromodichloromethane	96		95	67-130	1	20
trans-1,3-Dichloropropene	96		92	70-130	4	20
cis-1,3-Dichloropropene	100		98	70-130	2	20
1,1-Dichloropropene	110		100	70-130	10	20
Bromoform	86		82	54-136	5	20
1,1,2,2-Tetrachloroethane	100		94	67-130	6	20
Benzene	110		110	70-130	0	20
Toluene	100		95	70-130	5	20
Ethylbenzene	100		94	70-130	6	20
Chloromethane	98		88	64-130	11	20
Bromomethane	83		82	39-139	1	20



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Parameter	LCS %Recovery	Qual	LCSD %Recovery		%Recovery Limits	RPD	RPD Qual Limits	
/olatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-05 Batch:	WG1915124-3	WG1915124-4			
Vinyl chloride	100		96		55-140	4	20	
Chloroethane	100		92		55-138	8	20	
1,1-Dichloroethene	91		97		61-145	6	20	
trans-1,2-Dichloroethene	100		99		70-130	1	20	
Trichloroethene	95		92		70-130	3	20	
1,2-Dichlorobenzene	91		95		70-130	4	20	
1,3-Dichlorobenzene	98		96		70-130	2	20	
1,4-Dichlorobenzene	94		94		70-130	0	20	
Methyl tert butyl ether	87		89		63-130	2	20	
p/m-Xylene	110		105		70-130	5	20	
o-Xylene	110		100		70-130	10	20	
cis-1,2-Dichloroethene	100		100		70-130	0	20	
Dibromomethane	88		91		70-130	3	20	
1,2,3-Trichloropropane	90		91		64-130	1	20	
Acrylonitrile	93		96		70-130	3	20	
Styrene	110		100		70-130	10	20	
Dichlorodifluoromethane	90		85		36-147	6	20	
Acetone	81		94		58-148	15	20	
Carbon disulfide	100		110		51-130	10	20	
2-Butanone	79		86		63-138	8	20	
Vinyl acetate	130		130		70-130	0	20	
4-Methyl-2-pentanone	85		87		59-130	2	20	
2-Hexanone	75		85		57-130	13	20	



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Parameter	LCS %Recovery	Qual	LCSD %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-05 Batch: WC	G1915124-3 WG1915124-4		
Bromochloromethane	99		100	70-130	1	20
2,2-Dichloropropane	110		110	63-133	0	20
1,2-Dibromoethane	94		98	70-130	4	20
1,3-Dichloropropane	93		97	70-130	4	20
1,1,1,2-Tetrachloroethane	98		90	64-130	9	20
Bromobenzene	98		89	70-130	10	20
n-Butylbenzene	91		97	53-136	6	20
sec-Butylbenzene	110		110	70-130	0	20
tert-Butylbenzene	98		97	70-130	1	20
o-Chlorotoluene	96		91	70-130	5	20
p-Chlorotoluene	97		96	70-130	1	20
1,2-Dibromo-3-chloropropane	76		82	41-144	8	20
Hexachlorobutadiene	92		91	63-130	1	20
Isopropylbenzene	100		96	70-130	4	20
p-Isopropyltoluene	95		94	70-130	1	20
Naphthalene	80		84	70-130	5	20
n-Propylbenzene	100		90	69-130	11	20
1,2,3-Trichlorobenzene	84		88	70-130	5	20
1,2,4-Trichlorobenzene	89		91	70-130	2	20
1,3,5-Trimethylbenzene	100		100	64-130	0	20
1,2,4-Trimethylbenzene	100		100	70-130	0	20
1,4-Dioxane	88		94	56-162	7	20
p-Diethylbenzene	87		92	70-130	6	20



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number:

L2422775

05/02/24

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery		%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	01-05 Batch:	WG1915124-3	WG1915124-4				
p-Ethyltoluene	100		96		70-130	4		20	
1,2,4,5-Tetramethylbenzene	84		88		70-130	5		20	
Ethyl ether	95		94		59-134	1		20	
trans-1,4-Dichloro-2-butene	82		82		70-130	0		20	

	LCS	LCSD	Acceptance	
Surrogate	%Recovery Qual	%Recovery Qual	Criteria	
1,2-Dichloroethane-d4	93	100	70-130	
Toluene-d8	98	95	70-130	
4-Bromofluorobenzene	94	90	70-130	
Dibromofluoromethane	103	106	70-130	



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

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 MW-2_042524	- Westborough La	ab Asso	ociated sample	(s): 01-05 QC	Batch ID	: WG1915 ²	124-6 WG191	5124-7	QC Sample	e: L2422	2775-02	Client ID:
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		11	110		70-130	9		20
Chloroform	ND	10	10	100		11	110		70-130	10		20
Carbon tetrachloride	ND	10	11	110		11	110		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	9.9	99		9.9	99		63-130	0		20
1,1,2-Trichloroethane	ND	10	14	140	Q	10	100		70-130	33	Q	20
Tetrachloroethene	ND	10	10	100		10	100		70-130	0		20
Chlorobenzene	ND	10	9.9	99		9.8	98		75-130	1		20
Frichlorofluoromethane	ND	10	12	120		11	110		62-150	9		20
1,2-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		11	110		67-130	0		20
Bromodichloromethane	ND	10	10	100		10	100		67-130	0		20
rans-1,3-Dichloropropene	ND	10	9.6	96		9.7	97		70-130	1		20
cis-1,3-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
1,1-Dichloropropene	ND	10	11	110		11	110		70-130	0		20
Bromoform	ND	10	10	100		10	100		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		11	110		67-130	0		20
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	6.3	10	16	97		14	77		70-130	13		20
Chloromethane	ND	10	13	130		12	120		64-130	8		20
Bromomethane	1.1J	10	11	110		11	110		39-139	0		20



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS MW-2_042524	- Westborough	Lab Asso	ciated sample((s): 01-05 QC	Batch ID: WG1915	124-6 WG191	5124-7	QC Sample	: L242	2775-02	Client ID:
Vinyl chloride	ND	10	12	120	12	120		55-140	0		20
Chloroethane	ND	10	10	100	10	100		55-138	0		20
1,1-Dichloroethene	ND	10	10	100	10	100		61-145	0		20
trans-1,2-Dichloroethene	ND	10	10	100	11	110		70-130	10		20
Trichloroethene	ND	10	9.9	99	10	100		70-130	1		20
1,2-Dichlorobenzene	ND	10	9.8	98	10	100		70-130	2		20
1,3-Dichlorobenzene	ND	10	9.6	96	10	100		70-130	4		20
1,4-Dichlorobenzene	ND	10	9.7	97	10	100		70-130	3		20
Methyl tert butyl ether	ND	10	11	110	10	100		63-130	10		20
o/m-Xylene	2.0J	20	24	120	22	110		70-130	9		20
o-Xylene	ND	20	22	110	22	110		70-130	0		20
cis-1,2-Dichloroethene	ND	10	10	100	10	100		70-130	0		20
Dibromomethane	ND	10	9.5	95	9.9	99		70-130	4		20
1,2,3-Trichloropropane	ND	10	9.8	98	10	100		64-130	2		20
Acrylonitrile	ND	10	15	150	Q 11	110		70-130	31	Q	20
Styrene	ND	20	16	80	16	80		70-130	0		20
Dichlorodifluoromethane	ND	10	10	100	10	100		36-147	0		20
Acetone	12	10	17	50	Q 10	0	Q	58-148	52	Q	20
Carbon disulfide	ND	10	11	110	11	110		51-130	0		20
2-Butanone	ND	10	13	130	12	120		63-138	8		20
Vinyl acetate	ND	10	13	130	12	120		70-130	8		20
4-Methyl-2-pentanone	ND	10	11	110	10	100		59-130	10		20
2-Hexanone	ND	10	11	110	9.9	99		57-130	11		20



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number: L2422775

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS MW-2_042524	- Westborough	Lab Ass	sociated sample((s): 01-05 QC	Batch ID: WG1915	124-6 WG191	5124-7	QC Sample	∋: L2422	2775-02	Client ID:
Bromochloromethane	ND	10	11	110	11	110		70-130	0		20
2,2-Dichloropropane	ND	10	9.6	96	9.4	94		63-133	2		20
1,2-Dibromoethane	ND	10	11	110	11	110		70-130	0		20
,3-Dichloropropane	ND	10	10	100	10	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	10	100	10	100		64-130	0		20
Bromobenzene	ND	10	10	100	10	100		70-130	0		20
n-Butylbenzene	3.2	10	13	98	11	78		53-136	17		20
sec-Butylbenzene	3.5	10	14	105	12	85		70-130	15		20
ert-Butylbenzene	ND	10	10	100	10	100		70-130	0		20
o-Chlorotoluene	ND	10	8.9	89	9.3	93		70-130	4		20
o-Chlorotoluene	ND	10	9.2	92	9.5	95		70-130	3		20
1,2-Dibromo-3-chloropropane	ND	10	9.7	97	9.6	96		41-144	1		20
Hexachlorobutadiene	ND	10	9.2	92	10	100		63-130	8		20
sopropylbenzene	17	10	29	120	19	20	Q	70-130	42	Q	20
o-Isopropyltoluene	2.0J	10	12	120	11	110		70-130	9		20
Naphthalene	1.0J	10	12	120	11	110		70-130	9		20
n-Propylbenzene	40	10	50	100	26	0	Q	69-130	63	Q	20
1,2,3-Trichlorobenzene	ND	10	10	100	10	100		70-130	0		20
,2,4-Trichlorobenzene	ND	10	10	100	10	100		70-130	0		20
,3,5-Trimethylbenzene	3.2	10	14	108	12	88		64-130	15		20
1,2,4-Trimethylbenzene	97	10	110	130	57	0	Q	70-130	63	Q	20
,4-Dioxane	ND	500	570	114	550	110		56-162	4		20
o-Diethylbenzene	7.0	10	16	90	13	60	Q	70-130	21	Q	20



Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

Lab Number:

L2422775

Report Date:

05/02/24

Parameter	Native Sample	MS Add		MS nd %Reco	-	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - MW-2_042524	- Westborough	Lab	Associated sa	mple(s): 01-05	QC	Batch ID:	WG19151	24-6 WG1915	5124-7	QC Sample	: L2422	775-02	Client ID:
p-Ethyltoluene	38	,	10 5) 12	0		27	0	Q	70-130	60	Q	20
1,2,4,5-Tetramethylbenzene	28	,	10 3	3 10	0		22	0	Q	70-130	53	Q	20
Ethyl ether	ND	,	10 1:	2 12	0		12	120		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	•	10 8.	0 80)		8.4	84		70-130	5		20

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
1,2-Dichloroethane-d4	103	103	70-130
4-Bromofluorobenzene	92	93	70-130
Dibromofluoromethane	107	106	70-130
Toluene-d8	95	94	70-130

Project Name: 27-01 JACKSON AVENUE

Project Number: 170472002

YES

Lab Number: L2422775
Report Date: 05/02/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2422775-01A	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-01B	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-01C	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02A	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02A1	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02A2	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02B	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02B1	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02B2	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02C	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02C1	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-02C2	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-03A	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-03B	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-03C	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-04A	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-04B	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-04C	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-05A	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)
L2422775-05B	Vial HCl preserved	Α	NA		5.3	Υ	Absent		NYTCL-8260(14)



Project Name: Lab Number: 27-01 JACKSON AVENUE L2422775 170472002 **Report Date: Project Number:** 05/02/24

GLOSSARY

Acronyms

EDL

LCSD

MS

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.)

- 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.

 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

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

MDI - 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

> - 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.

adjustments from dilutions, concentrations or moisture content, where applicable.

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.

TEO - 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: 27-01 JACKSON AVENUE Lab Number: L2422775

Project Number: 170472002 Report Date: 05/02/24

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, Benzo(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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: 27-01 JACKSON AVENUE Lab Number: L2422775

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Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 27-01 JACKSON AVENUE Lab Number: L2422775

Project Number: 170472002 Report Date: 05/02/24

REFERENCES

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 21

> Published Date: 04/17/2024 Page 1 of 1

Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility SM 2540D: TSS.

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9193 Client Information Client: LAN (7A) Address: 3(e) W	31st street	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coo Project Information Project Name: 27 Project Location: Q V Project # 170 472 (Use Project name as Proposet Manager: K in ALPHAQuote #:	oper Ave, Suite 1 - 61 Jac - 70 Ja	kson Awe NY	Page 1 of		Deliveral AS BC Cott	P-A uIS (1 File) ner ry Requireme	ASP EQU	P-B IIS (4 File)	ALPHA Job # L24277 Billing Information Same as Client Info Po # Disposal Site Information Please identify below location of applicable disposal facilities.
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Other project specific Please Cc! Date	MW-2-042		r@Langar SD#	n. cam, Gr	nol Orten)	a Destroyan, a	ANALYS AN		+		Done Lab to do Preservation Lab to do (Please Specify below)
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-02	MW-2-01	12524		1030	GW	AL	X				
-03	DUP01-04	2524		_	GW	AL	×				
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Preservative Code: A = None B = HCi C = HNO ₃ D = H ₂ SO ₈ E = NaOH	Container Code P = Plantic A = Amber Glass V = Vial G = Glass B = Bacteria Cop	Westboro: Certification N Manafield: Certification N				fainer Type	+++				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₂ K/E = Zn Ac/NaOH O = Other	C = Cube O = Other E = Encore D = BOO Bottle	Relinquished Anthony	Green	4/25/24			Received	14A 1/4)	K1/25 200 APR 2 4/26	14/5 5 2021 215 124 out	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.
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ATTACHMENT E Data Usability Summary Report



Technical Memorandum

1 University Square Drive Princeton, NJ 08540 T: 609.282.8000
Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Kimberly Semon, Langan Senior Project Manager

From: Joe Conboy, Langan Senior Staff Chemist

Date: May 7, 2024

Re: Data Usability Summary Report

For 27-01 Jackson Avenue

April 2024 Groundwater Samples Langan Project No.: 170472002

This memorandum presents the findings of an analytical data validation from the analysis of groundwater samples collected in April 2024 by Langan Engineering and Environmental Services at 27-01 Jackson Avenue. The samples were analyzed by Alpha Analytical Laboratories, Inc. (NYSDOH NELAP registration # 11148) for volatile organic compounds (VOCs) by the methods specified below.

VOCs by SW-846 Method 8260C

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Technical Memorandum

Data Usability Summary Report For 27-01 Jackson Avenue April 2024 Groundwater Samples Langan Project No.: 170472002 May 7, 2024 Page 2 of 4

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank		
CCV	Continuing Calibration Verification	MDL	Method Detection Limit		
FB	Field Blank	MS	Matrix Spike		
FD	Field Duplicate	MSD	Matrix Spike Duplicate		
ICAL	Initial Calibration	RF	Response Factor		
ICV	Initial Calibration Verification	RL	Reporting Limit		
ISTD	Internal Standard	RPD	Relative Percent Difference		
LCL	Lower Control Limit	RSD	Relative Standard Deviation		
LCS	Laboratory Control Sample	TB	Trip Blank		
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit		

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. The SDG L2422775 underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

- **R** The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- **J** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ** The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- **U** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).



Technical Memorandum Data Usability Summary Report For 27-01 Jackson Avenue April 2024 Groundwater Samples Langan Project No.: 170472002

May 7, 2024 Page 3 of 4

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of

results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate

qualification, but do not result in unusable data. No minor deficiencies were identified.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not

necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

L2422775

The MS and/or MSD performed on sample MW-2_042524 exhibited percent recoveries (10% -

150%) and/or RPDs (21% - 53%) outside of control limits for one or more analytes. Organic

results are not qualified on the basis of MS/MSD recoveries or RPDs alone. No qualification is

necessary.

FIELD DUPLICATE:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For

results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less

than ±1X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the

RPD is less than or equal to 30% for groundwater. The following field duplicate and parent sample

pair was compared to and met the precision criteria:

DUP01_042524 and MW-1_042524

LANGAN

Technical Memorandum

Data Usability Summary Report For 27-01 Jackson Avenue April 2024 Groundwater Samples Langan Project No.: 170472002

May 7, 2024 Page 4 of 4

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Joe Conboy

Senior Staff Chemist