

May 30, 2025

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: Eleventh 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 eleventh 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. Eleven post-injection quarterly sampling events have been completed at the CO site in October 2022, January 2023, April 2023, July 2023, October 2023, January 2024, April 2024, July 2024, October 2024, January 2025, and April 2025.

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 16, 2025. 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. Purging was performed using a peristaltic pump fitted with dedicated tubing at each well. During purging of MW-1 and MW-2, 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 for MW-1 and MW-2 are recorded in the Well Purging and Sampling Logs provided in Attachment C.

As a general rule, groundwater is purged until water quality parameters stabilized, after an hour of continuous purging, or after three well volumes of groundwater had been removed from the well. Groundwater samples were collected from MW-1 after water quality parameters stabilized, and from MW-2 after one 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 Pace Analytical, a New York State Department of Environmental Health (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 2025 sampling event are summarized in Table 1. The laboratory analytical report from the April 2025 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.



April 2025 Performance Monitoring Analytical Results

Analytical results from the April 2025 performance monitoring are summarized as follows:

- MW-1: No VOCs were detected above the NYSDEC SGVs. In comparison to baseline analytical results, total VOC and total BTEX concentrations have decreased by 100%.
- <u>MW-2:</u> 1,2,4-trimethylbenzene, m/p-xylene, n-propylbenzene, and total xylenes were detected above the NYSDEC SGVs. In comparison to baseline analytical results, total VOC and total BTEX concentrations have decreased by 99.2% and 99.8%, respectively.

Four VOCs were detected above the NYSDEC SGVs in groundwater samples collected from one monitoring well (MW-2) during the April 2025 monitoring event. Total VOC concentrations have decreased by 100% (MW-1) and 99.2% (MW-2), and total BTEX concentrations have decreased by 100% (MW-1) and 99.8% (MW-2) when compared to baseline concentrations. In comparison to the tenth quarterly sampling event, analyte concentrations detected above the NYSDEC SGVs in MW-2 are generally within the same order of magnitude or one order of magnitude lower.

Analytical data are shown on Figure 4 and result trends are shown on Figure 5. Comparison of overall result trends for each monitoring well show a bulk reduction in petroleum-related VOCs to asymptotic levels over the course of the monitoring program. Based on the post-remedy sampling results and trends, the off-site remedy appears to have been effective; further significant decline of contaminant of concern concentrations in the near term is not anticipated.

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.



Langan Project No.: 170472002

Closure

Targeted petroleum-related VOC concentrations exceeded the NYSDEC SGVs in MW-2, but have been reduced by one to three orders of magnitude relative to baseline concentrations, indicating that bulk reduction has been observed. VOCs were not detected above the NYSDEC SGVs in MW-1 during the last two quarterly monitoring events. As requested by NYSDEC in correspondence dated September 19, 2024 (see Attachment A), three additional quarters (Q9 through Q11) of groundwater monitoring were conducted by Langan. Based on review of the overall analytical data generated over the course of the monitoring program, it appears that the remedy was effective in demonstrating a bulk reduction of these contaminants. As evidenced by the three additional quarters, asymptotic reduction of VOC concentrations in MW-1 and MW-2 appear to have been achieved, and further decline of contaminant of concern concentrations is not anticipated. Therefore, Langan is requesting discontinuation of groundwater monitoring at the site.

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. Senior Principal

Enclosures:

Attachment B

Attachment C

Attachment D

Attachment F

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

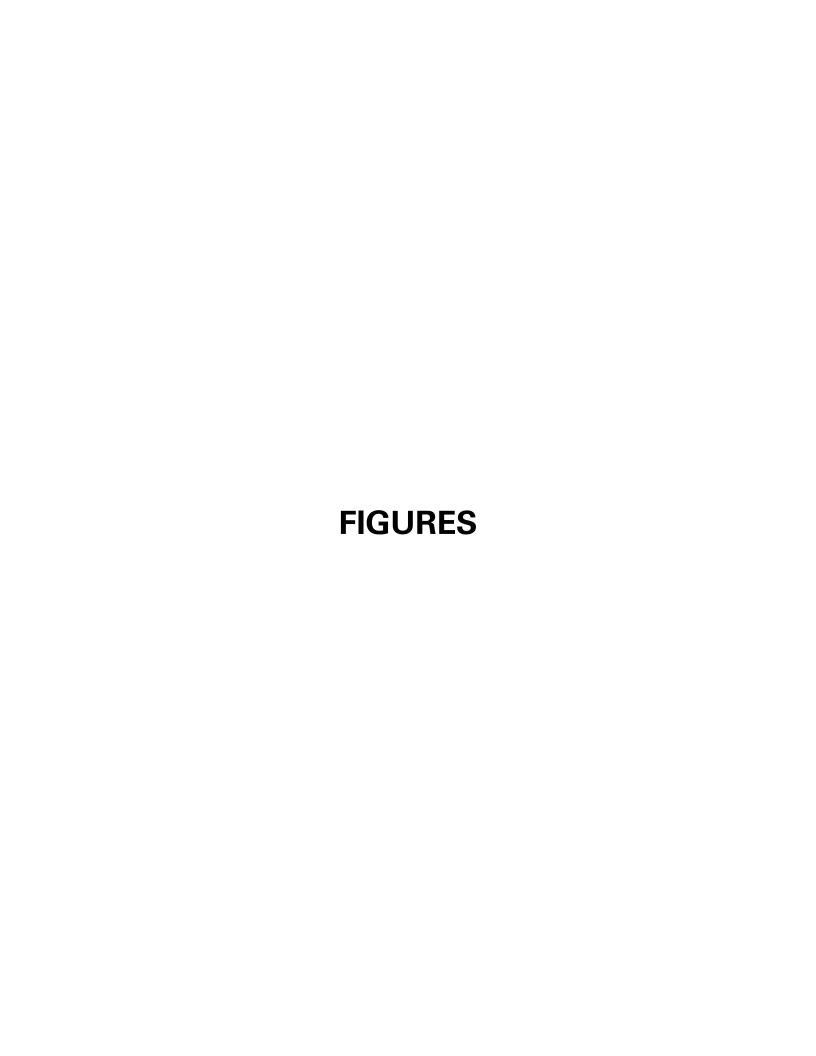
Daily Site Observation Report

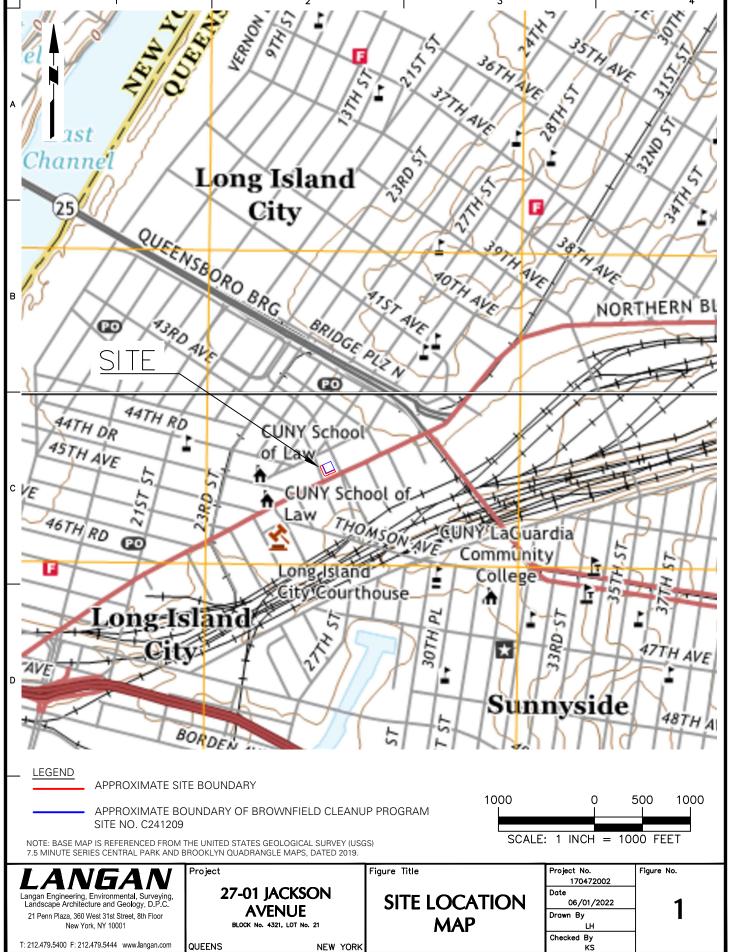
Laboratory Analytical Report

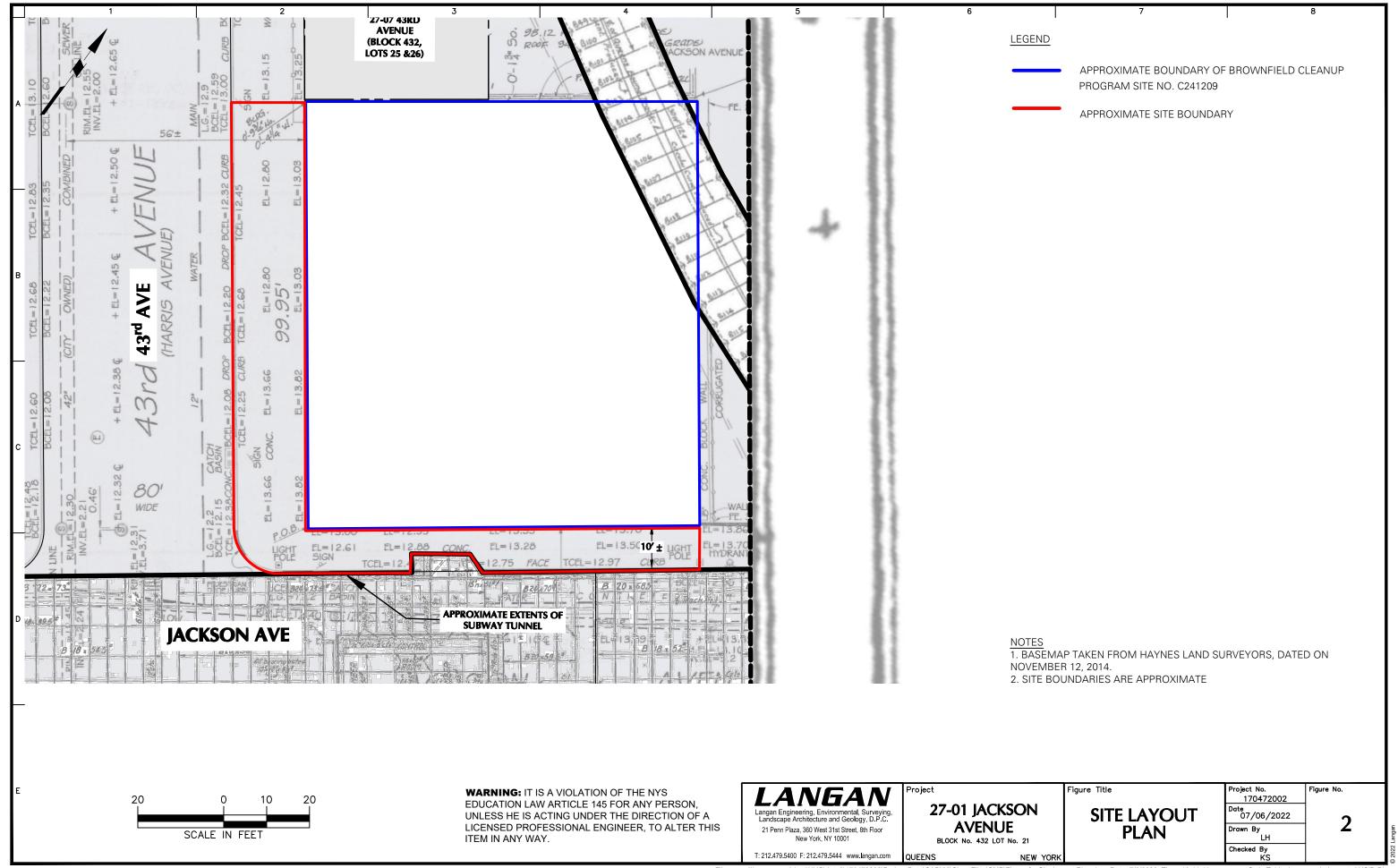
Well Purging and Sampling Logs

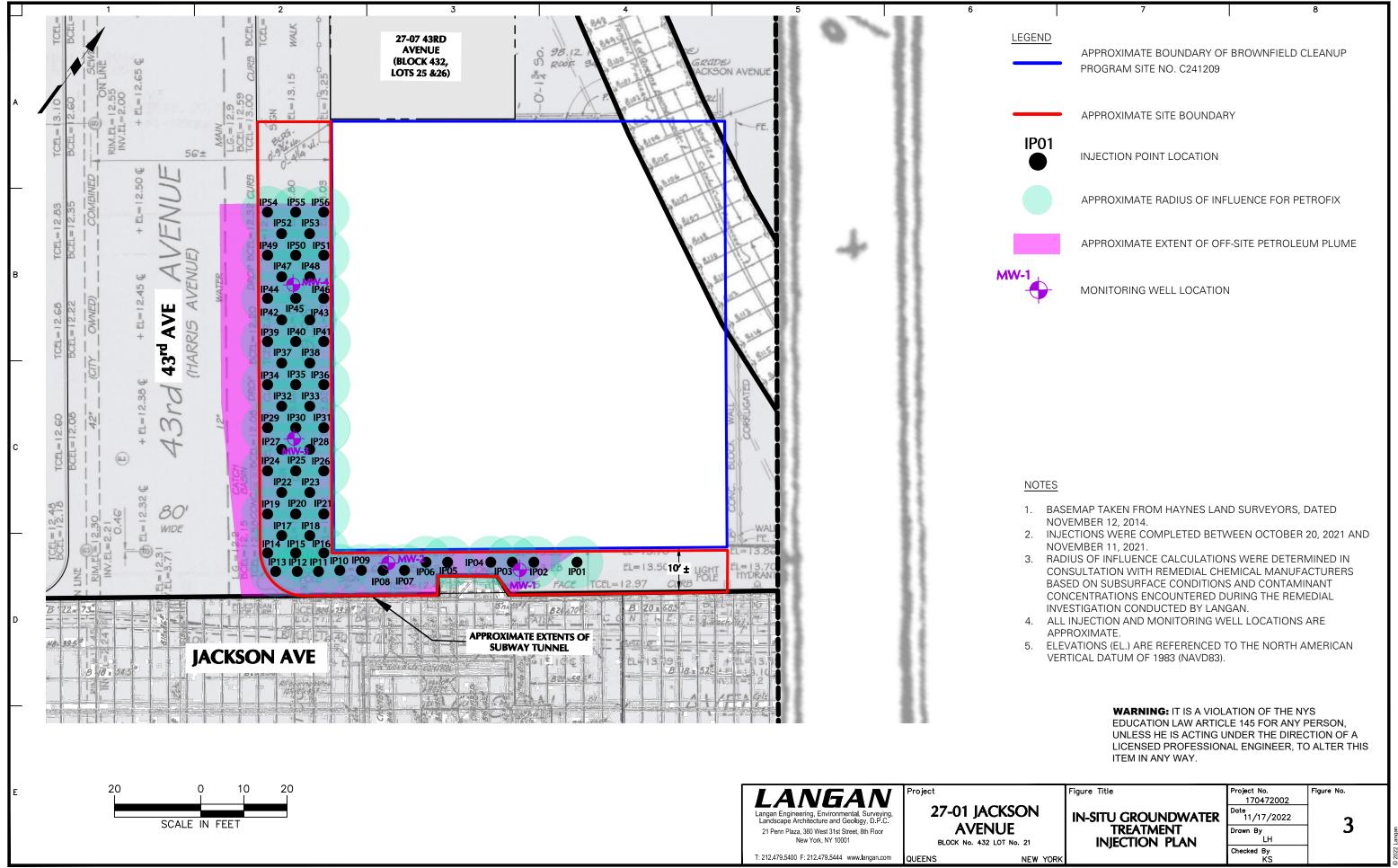
Data Usability Summary Report











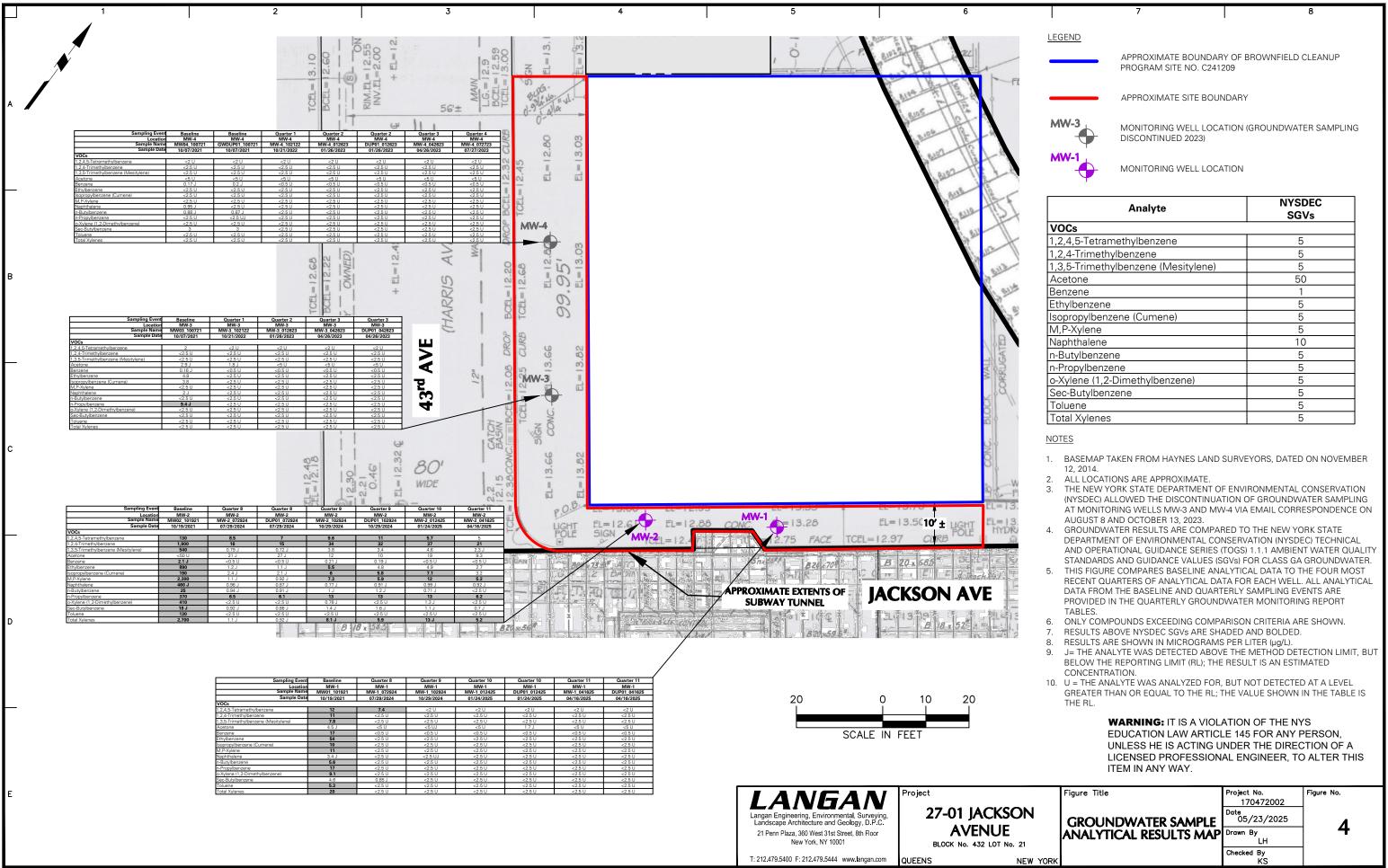


Figure 5 Quarterly Groundwater Monitoring Report Groundwater Sample Analytical Results Trends

MW-1 Groundwater Trends - VOCs

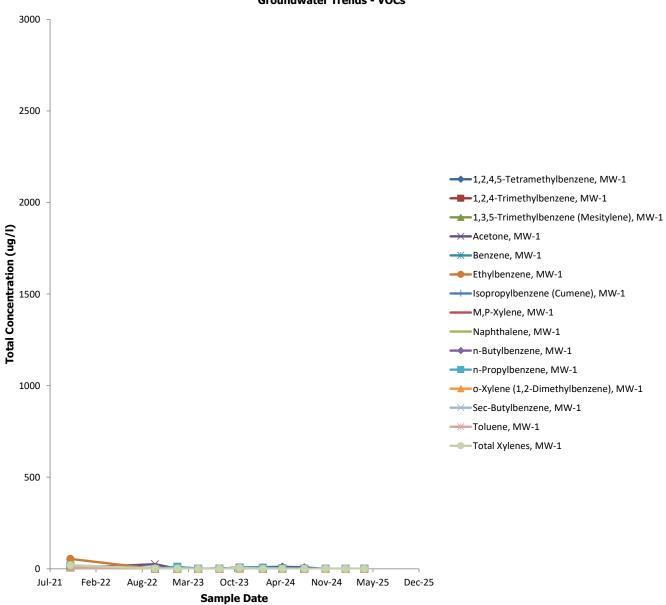


Figure 5 Quarterly Groundwater Monitoring Report Groundwater Sample Analytical Results Trends

MW-2 Groundwater Trends - VOCs

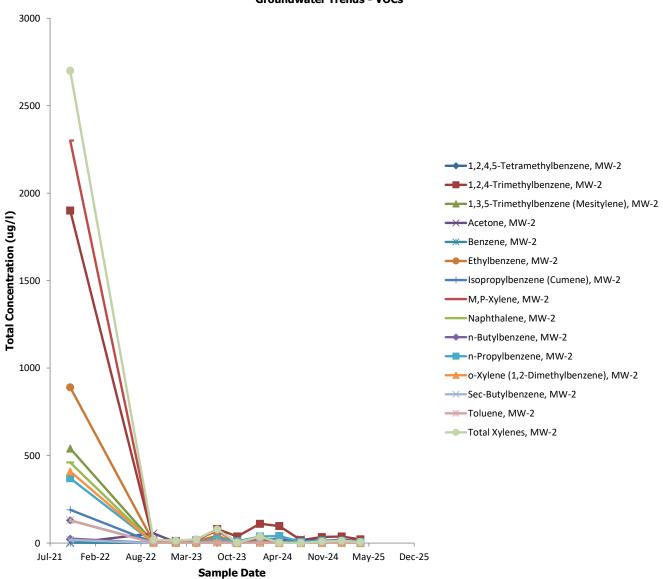


Figure 5 Quarterly Groundwater Monitoring Report Groundwater Sample Analytical Results Trends

MW-3 Groundwater Trends - VOCs

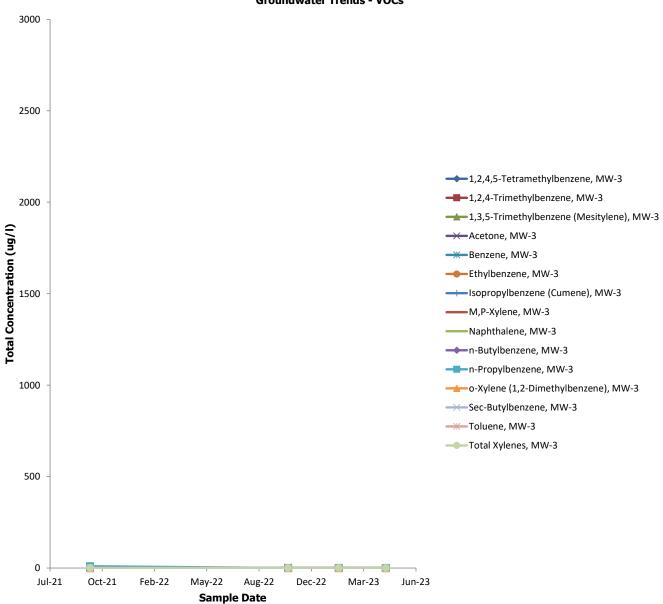
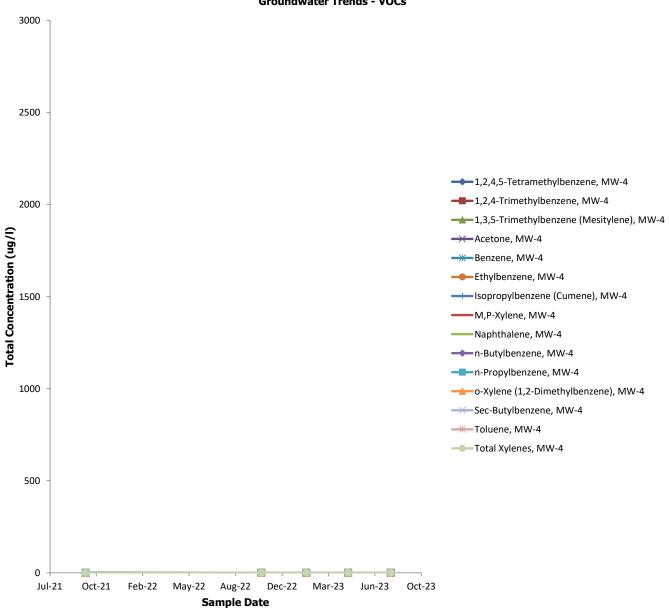
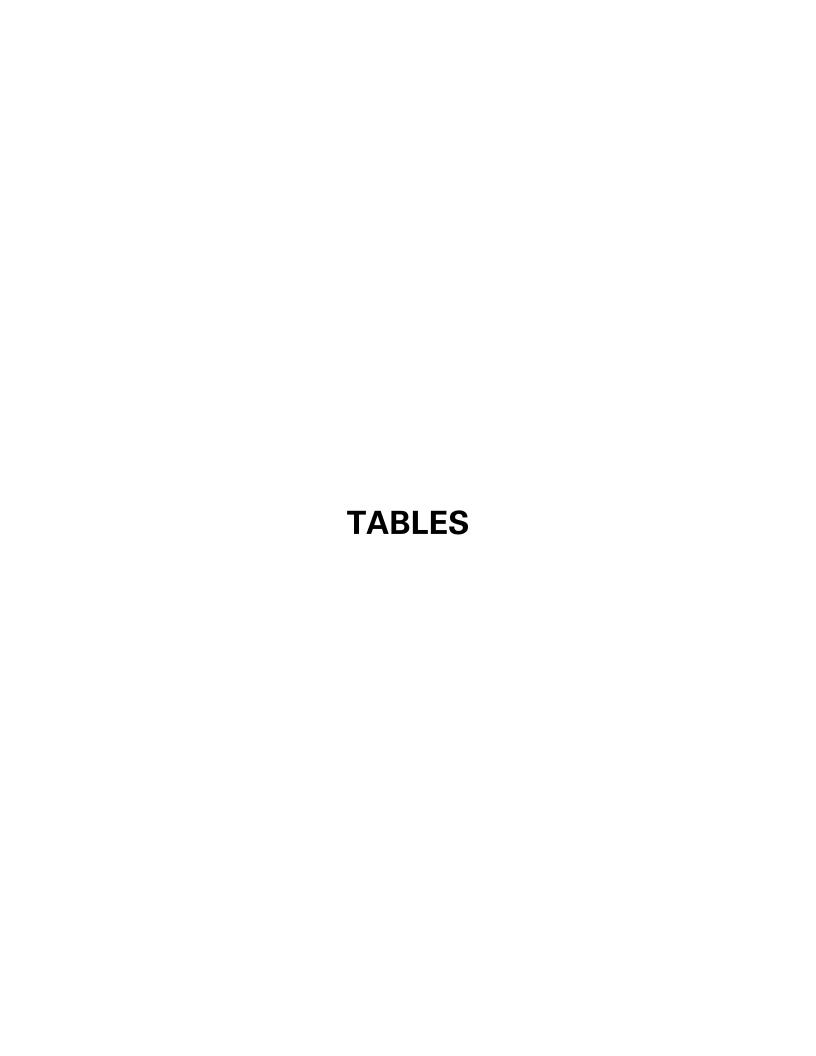


Figure 5 Quarterly Groundwater Monitoring Report Groundwater Sample Analytical Results Trends

MW-4 Groundwater Trends - VOCs





			Sampling Event	Baseline	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 4	Quarter 5	Quarter 5	Quarter 6	Quarter 7	Quarter 7	Quarter 8	Quarter 9	Quarter 10	Quarter 10	Quarter 11	Quarter 11
Analyte	CAS	NYSDEC	Location Sample Name	MW-1 MW01 101921	MW-1 MW-1 102122	MW-1 MW-1 012623	MW-1 MW-1 042623	MW-1 MW-1 072723	MW-1 DUP01 072723	MW-1 MW-1 102323	MW-1 DUP01 102323	MW-1 MW-1 013124	MW-1 MW-1 042524	MW-1 DUP01 042524	MW-1 MW-1 072924	MW-1 MW-1 102924	MW-1 MW-1 012425	MW-1 DUP01 012425	MW-1 MW-1 041625	MW-1 DUP01 041625
Analyto	Number	SGVs	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	07/29/2024	10/29/2024	01/24/2025	01/24/2025	04/16/2025	04/16/2025
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds	C20 20 C		//	-2.5.11	-2.5.11	-0.511	-2.5.11	-0 F.I.I	-2.511	-2 F I I	-0.E.U	-0.5.11	-2.5.11	-2.511	-2.511	-0 E II	-2.511	-0.511	-0 E I I	2511
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6	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	<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	<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	<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	<1.5 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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene 1,1-Dichloropropene	75-35-4 563-58-6	5 5	ug/l ug/l	<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 <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
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	<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	<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	12	1.9 J	8.9	1.7 J	<2 U	<2 U	7.6	8.4	8	11	11	7.4	<2 U	<2 U	<2 U	<2 U	<2 U
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	120-82-1 95-63-6	5 5	ug/l ug/l	<2.5 U	<2.5 U 0.77 J	<2.5 U 0.74 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U 7.2	<2.5 U 7.5	<2.5 U <2.5 U	<2.5 U 2.6	<2.5 U 2.6	<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
1,2-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	<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	<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	<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	<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	7.8	<1 U 4	<1 U 1.7 J	<1 U <2.5 U	<1 U <2.5 U	<1 U <2.5 U	<1 U 5.3	<1 U 5.6	<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 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	<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	<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	<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-Diethyl Benzene 1,4-Dioxane (P-Dioxane)	105-05-5 123-91-1	NS 0.35	ug/l ug/l	26 <250 U	4 <250 U	4.9 <250 U	1. 7 J <250 ∪	<2 U <250 U	<2 U <250 U	1.6 J <250 U	1. 7 J <250 U	3.9 <250 U	3.5 <250 U	3.5 <250 U	2.3 <250 U	<2 U <250 U	<2 U <250 U	<2 U <250 U	<2 U <250 U	<2 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	<2.5 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	<2.5 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	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene 4-Ethyltoluene	106-43-4 622-96-8	5 NS	ug/l ug/l	<2.5 U 6.1	<2.5 U 1.5 J	<2.5 U 1.4 J	<2.5 U <2 U	<2.5 U <2 U	<2.5 U <2 U	<2.5 U 4	<2.5 U 4.3	<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
Acetone	67-64-1	50	ug/l	4.5 J	25	<5 U	<5 U	2.5 J	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 UJ	<5 U	1.7 J	<5 U	<5 U
Acrylonitrile	107-13-1	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	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	71-43-2	1	ug/l	17	<0.5 U	0.22 J	<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	<0.5 U	<0.5 U	<0.5 U
Bromobenzene Bromochloromethane	108-86-1 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 <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	<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	<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	<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	<2.5 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Carbon Disulfide Carbon Tetrachloride	75-15-0 56-23-5	60 5	ug/l ug/l	1.2 J <0.5 ∪	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U
Chlorobenzene	108-90-7	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane	75-00-3	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	<2.5 U	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroform	67-66-3 74-87-3	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloromethane Cis-1,2-Dichloroethene	156-59-2	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	<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
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	<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	<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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	5 5	ug/l ug/l	<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	<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	<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 UJ	<2.5 U	<2.5 U	<2.5 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	<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	<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) M,P-Xylene	98-82-8 179601-23-	5	ug/l ug/l	10 11	<2.5 U 1.3 J	9.1 0.88 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	3.9 3.7	4.2 4	5.6 <2.5 U	2.1 J <2.5 U	2.1 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	<2.5 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	<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	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride	75-09-2	5	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 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	<2.5 U
Naphthalene n-Butylbenzene	91-20-3 104-51-8	10 5	ug/l ug/l	5.6	<2.5 U	2.2 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	2.2 J 1.4 J	1.6 J	1.7 J	0.87 J	<2.5 U 0.81 J	<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 <2.5 U
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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
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	<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	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	0.85 J	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Styrene T-Butylbenzene	100-42-5 98-06-6	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	1. 2 J <2.5 ∪	<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
Tert-Butyl Methyl Ether	1634-04-4	-	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	0.21 J	<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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	108-88-3		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
Total 1,2-Dichloroethene (Cis and Trans) Total Xylenes	540-59-0 1330-20-7	NS 5	ug/l	<2.5 U 20	<2.5 U 1.3 J	<2.5 U 0.88 J	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	<2.5 U 4.7 J	<2.5 U 5 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 <2.5 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	l ug/l ug/l	<0.5 U	<0.5 U	<0.5 U	<2.5 U	<2.5 U	<2.5 U	4.7 J <0.5 U	<0.5 U	<2.5 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	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 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	<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		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	<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	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Trichloroethene (TCE) Trichlorofluoromethane	79-01-6 75-69-4	5 5	ug/l ug/l	<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 <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 UJ	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U
Vinyl Acetate	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	<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	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U

			Sampling Event	Baseline	Quarter 1	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 5	Quarter 6	Quarter 6	Quarter 7	Quarter 8	Quarter 8	Quarter 9	Quarter 9	Quarter 10	Quarter 11
Analyte	CAS	NYSDEC	Location Sample Name	MW-2 MW02 101921	MW-2 MW-2 102022	MW-2 DUP01 102022	MW-2 MW-2 012623	MW-2 MW-2 042623	MW-2 MW-2 072723	MW-2 MW-2 102323	MW-2 MW-2 013124	MW-2 DUP01 013124	MW-2 MW-2 042524	MW-2 MW-2 072924	MW-2 DUP01 072924	MW-2 MW-2 102924	MW-2 DUP01 102924	MW-2 MW-2 012425	MW-2 MW-2 041625
1	Number	SGVs	Sample Date	10/19/2021	10/20/2022	10/20/2022	01/26/2023	04/26/2023	07/27/2023	10/23/2023	01/31/2024	01/31/2024	04/25/2024	07/29/2024	07/29/2024	10/29/2024	10/29/2024	01/24/2025	04/16/2025
Volatile Organic Compounds			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
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	<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	<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 1	ug/l	<5 U <15 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	<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	<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
1,1-Dichloroethene	75-35-4	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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene 1,2,3-Trichlorobenzene	563-58-6 87-61-6	5 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	<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
1,2,3-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	<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	8.5	7	9.6	11	5.7	5
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	120-82-1 95-63-6	5 5	ug/l ug/l	<25 U 1,900	<2.5 U	<2.5 U 34 J	<2.5 U 12	<2.5 U 15	<2.5 U	<2.5 U 37	<2.5 U 110 J	<2.5 U 52 J	<2.5 U 97	<2.5 U 16	<2.5 U 15	<2.5 U	<2.5 U 32	<2.5 U 37	<2.5 U 21
1,2-Dibromo-3-Chloropropane	96-12-8	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	<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	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2-Dichlorobenzene 1,2-Dichloroethane	95-50-1 107-06-2	ა 0.6	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	<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
1,2-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 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8		ug/l	540	3.5 J	8 J	2.5	2.4 J	11	2.5	11 J	6.9 J	3.2	0.79 J	0.72 J	3.8	3.4	4.6	2.3 J
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	<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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene 1,4-Dioxane (P-Dioxane)	105-05-5 123-91-1	NS 0.35	ug/l ug/l	270 <2,500 U	<2 U <250 U	0.72 J <250 ∪	1.4 J <250 U	0.85 J <250 U	1.4 J <250 U	0.91 J <250 U	2.5 <250 ∪	1.1 J <250 U	7 <250 U	1.3 J <250 U	1.2 J <250 U	2.1 <250 UJ	2.2 <250 UJ	1.5 J <250 U	3.3 <250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<2,500 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-Chlorotoluene	95-49-8	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK) 4-Chlorotoluene	591-78-6 106-43-4	50 5	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	<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	5.6	5.3	16	15	18	7.4
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	21 J	27 J	12	10	19	9.3
Acrylonitrile Benzene	107-13-1 71-43-2	1	ug/l ug/l	<50 U 2.1 J	<5 ∪ 0.69	<5 U 0.35 J	<5 U 0.51	<5 U 0.82	<5 ∪ 0.6	<5 U <0.5 U	<5 U 0.18 J	<5 U 0.31 J	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U 0.21 J	<5 U 0.19 J	<5 U <0.5 U	<5 U <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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	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	<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
Bromodichloromethane Bromoform	75-27-4 75-25-2	50	ug/l ug/l	<20 U	<2 U	<2 U	<2 U	<2 U	<0.5 U	<2 U	<2 U	<2 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	<0.5 U	<0.5 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	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Carbon Disulfide Carbon Tetrachloride	75-15-0 56-23-5	60 5	ug/l ug/l	<50 U <5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane	75-00-3	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	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ	<2.5 U	<2.5 U
Chloroform Chloromethane	67-66-3 74-87-3	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	<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
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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene Cymene	10061-01-5 99-87-6	0.4	ug/l ug/l	<5 U <25 U	<0.5 U <2.5 U	<0.5 U 0.7 J	<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 1.2 J	<0.5 U <2.5 U	<0.5 U 2 J	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 U 0.76 J	<0.5 U 0.86 J	<0.5 U 0.71 J	<0.5 U <2.5 U
Dibromochloromethane	124-48-1	50	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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<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
Dichlorodifluoromethane Diethyl Ether (Ethyl Ether)	75-71-8 60-29-7	5 NS	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	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 UJ	<5 U <2.5 UJ	<5 U <2.5 U	<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	1.2 J	1.1 J	5.5	4.8	4.9	2.7
Hexachlorobutadiene	87-68-3	0.5	ug/l	<25 U	<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	<2.5 U	<2.5 U 2.1 J	<2.5 U	<2.5 U 5.8	<2.5 U	<2.5 U 3.2
Isopropylbenzene (Cumene) M,P-Xylene	98-82-8 179601-23-	1 5	ug/l ug/l	190 2,300	16	3.5 14	3.2 12	5.2 19	22 70	8.3 2.3 J	26 J 32	18 J 36	17 2 J	2.4 J 1.1 J	0.92 J	7.3	5.8 5.9	7.1 12	5.2
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<50 U	<5 UJ	21 J	<5 U	<5 U	27	<5 U	<5 UJ	13 J	<5 U	4.6 J	4.7 J	<5 U	<5 U	<5 U	<5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) Methylene Chloride	108-10-1 75-09-2	NS 5	ug/l ug/l	<50 U <25 U	1.5 J 1 J	<5 U <2.5 U	<5 U 0.92 J	1.7 J <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U 0.79 J	<5 U <2.5 U	<5 U <2.5 U	<5 U <2.5 U	<5 U 1.1 J	<5 U 0.88 J	<5 U <2.5 U	<5 U <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	0.96 J	0.87 J	0.77 J	0.91 J	0.99 J	0.92 J
n-Butylbenzene	104-51-8		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	0.94 J	0.91 J	1 J	1.2 J	0.71 J	<2.5 U
n-Propylbenzene o-Xylene (1,2-Dimethylbenzene)	103-65-1 95-47-6	5 5	ug/l ug/l	370 410	2.8 J 2 J	5.7 J 1.9 J	2.7 1.5 J	4.5 2.1 J	23 7.5	9.5 <2.5 U	37 J 3.7	19 J 4.2	40 <2.5 U	6.5 <2.5 U	6.1 <2.5 U	13 0.78 J	13 <2.5 U	13 1.3 J	6.2 <2.5 U
Sec-Butylbenzene	135-98-8		ug/l	18 J	<2.5 U	0.83 J	<2.5 U	<2.5 U	0.93 J	0.84 J	1.9 J	<2.5 U	3.5	0.92 J	0.86 J	1.4 J	1.6 J	1.1 J	0.7 J
Styrene	100-42-5	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
T-Butylbenzene Tert-Butyl Methyl Ether	98-06-6 1634-04-4	5 10	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	<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
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	<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	130 <25 U	0.7 J <2.5 U	1 J <2.5 U	<2.5 U <2.5 U	0.79 J <2.5 U	1.2 J <2.5 U	<2.5 U <2.5 U	<2.5 U <2.5 U	0.74 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	<2.5 U <2.5 U	<2.5 U <2.5 U
Total 1,2-Dichloroethene (CIS and Trans) Total Xylenes	1330-20-7		ug/l ug/l	2,700	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U 78	<2.5 U 2.3 J	<2.5 U	<2.5 U	<2.5 U 2 J	<2.5 U 1.1 J	<2.5 U 0.92 J	<2.5 U 8.1 J	<2.5 U 5.9	<2.5 U	<2.5 U 5.2
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene Trans-1,3-Dichloropropene	156-60-5 10061-02-6	5 6 0.4	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	<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
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	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ	<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	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane Vinyl Acetate	75-69-4 108-05-4	5 NS	ug/l ug/l	<25 U <50 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 <5 U	<2.5 UJ <5 U	<2.5 UJ <5 U	<2.5 U <5 U	<2.5 U <5 U
Vinyl Chloride	75-01-4	2	ug/l	<10 U	<1 U	<1 U	<1 U	<1 U	<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 2	Quarter 3	Quarter 3	Baseline	Baseline	Quarter 1	Quarter 2	Quarter 2	Quarter 3	Quarter 4
	010	NIVODEO	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	CAS Number	NYSDEC SGVs	Sample Name	MW03_100721	MW-3_102122	MW-3_012623	MW-3_042623	DUP01_042623	MW04_100721	GWDUP01_100721	MW-4_102122	MW-4_012623	DUP01_012623	MW-4_042623	MW-4_072723
	Number	3075	Sample Date	10/07/2021	10/21/2022	01/26/2023	04/26/2023	04/26/2023	10/07/2021	10/07/2021	10/21/2022	01/26/2023	01/26/2023	04/26/2023	07/27/2023
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds 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	<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	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	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	<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	<1.5 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	<2.5 U
1,1-Dichloroethene 1,1-Dichloropropene	75-35-4 563-58-6	5 5	ug/l ug/l	<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 <2.5 U	<0.5 U <2.5 U	<0.5 U <2.5 U	<0.5 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	<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	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	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	<2.5 U
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	95-63-6 96-12-8	5 0.04	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	<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	<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	<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	<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 U
1,3,5-Trimethylbenzene (Mesitylene) 1,3-Dichlorobenzene	108-67-8 541-73-1	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	<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	<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	<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				
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				
2,2-Dichloropropane 2-Chlorotoluene	594-20-7 95-49-8	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	<2.5 U <2.5 U
2-Hexanone (MBK)	591-78-6	50	ug/l ug/l	<5 UJ	<5 U	<5 U	<5 U	<5 U	<5 UJ	<5 UJ	<5 U	<5 U	<5 U	<2.5 U	<2.5 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	<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 Benzene	107-13-1 71-43-2	5 1	ug/l	<5 UJ 0.16 J	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 U <0.5 U	<5 UJ 0.17 J	<5 UJ 0.2 J	<5 U <0.5 U				
Bromobenzene	108-86-1	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
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	<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	<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	<2 U
Bromomethane Carbon Disulfide	74-83-9 75-15-0	5 60	ug/l ug/l	<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 <5 U	<2.5 U <5 U
Carbon Tetrachloride	56-23-5	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	<0.5 U
Chlorobenzene	108-90-7	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	<2.5 U
Chloroethane	75-00-3	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	<2.5 U
Chloromothono	67-66-3 74-87-3	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 <2.5 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 Cis-1,2-Dichloroethene	156-59-2	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
Cis-1,3-Dichloropropene	10061-01-5		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	<0.5 U
Cymene	99-87-6	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	<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	<0.5 U
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	5 5	ug/l ug/l	<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	<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	<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	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene) M,P-Xylene	98-82-8	5	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
Methyl Ethyl Ketone (2-Butanone)	179601-23-1 78-93-3	5	ug/l ug/l	<2.5 U <5 U	<2.5 U <5 UJ	<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 UJ	<2.5 U <5 U	<2.5 U <5 U	<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	<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	<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 n-Propylbenzene	104-51-8 103-65-1	5 5	ug/l ug/l	<2.5 U 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	0.88 J <2.5 U	0.87 J <2.5 UJ	<2.5 U <2.5 U				
o-Xylene (1,2-Dimethylbenzene)	95-47-6	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	<2.5 U
Sec-Butylbenzene	135-98-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	3	3	<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	<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	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether Tetrachloroethene (PCE)	1634-04-4 127-18-4	10 5	ug/l 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	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U
Toluene	108-88-3	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	<2.5 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	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	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	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	<2.5 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	<0.5 U
Trans-1,2-Dichloroethene Trans-1,3-Dichloropropene	156-60-5 10061-02-6	5 0.4	ug/l 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	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 U <0.5 U	<2.5 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	<0.5 U	<2.5 U	<0.5 U	<2.5 U	<0.5 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	<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	<2.5 U
Vinyl Acetate	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	<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	<1 U

ATTACHMENT A NYSDEC Correspondence

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

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

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From: Lexi Haley

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

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

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

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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

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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

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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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Lexi Haley

From: Salazar, Marlen C (DEC) < Marlen.Salazar@dec.ny.gov>

Sent: Thursday, September 19, 2024 2:52 PM To: Lexi Haley; Kimberly Semon; Brian Gochenaur

Cc: aaron.shirian@lionsgroupnyc.com; O'Connell, Jane H (DEC); Maycock, Cris-Sandra (DEC); McLaughlin,

Scarlett E (HEALTH); Kenney, Julia M (HEALTH)

[External] RE: 27-01 Jackson Avenue - Off-Site (S241209) - Q8 Groundwater Monitoring Report Subject:

Hi Langan Team,

I am reiterating here what was discussed in today's meeting re: the request to discontinue groundwater monitoring at the referenced site.

NYSDEC has denied the request to discontinue quarterly groundwater monitoring. Groundwater monitoring must continue at the stated frequency of the OSMP, i.e. quarterly. While the data that you have shown us appears satisfactory, we do not have enough data to be confident that these numbers will not rebound and spike in subsequent quarters. It is for that reason that groundwater monitoring is to continue. As mentioned in the email below denying the request, this request can be re-evaluated again at the time of submission of the 2024-2025 PRR in late May. This allows for three more quarters of groundwater sampling events to show asymptotic reduction in groundwater concentrations of VOCs.

Please reach out if you have further questions.

Best,

Marlen

Marlen Salazar

Pronouns: She/her/hers

Engineer Trainee, Superfund and Brownfield Cleanup Section A, Region 2, Division of Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, New York 11101

P: 718-482-7129 | marlen.salazar@dec.ny.gov













From: Salazar, Marlen C (DEC)

Sent: Thursday, September 12, 2024 1:14 PM

To: Lexi Haley < lhaley@langan.com>

Cc: aaron.shirian@lionsgroupnyc.com; Kimberly Semon <ksemon@langan.com>; Brian Gochenaur

<bgochenaur@Langan.com>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Maycock, Cris-Sandra (DEC) <cris-</p> sandra.maycock@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Kenney, Julia M (HEALTH) < julia.kenney@health.ny.gov>

Subject: RE: 27-01 Jackson Avenue - Off-Site (S241209) - Q8 Groundwater Monitoring Report

Hi Lexi,

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the 8th quarterly groundwater sampling report for 27-01 Jackson Avenue – Off-site (site no. S241209) prepared by Langan Engineering, Environmental Surveying, Landscape Architecture and Geology D.P.C. on behalf of 2701 Jackson Avenue LLC. The request to terminate the groundwater monitoring program at the site has been **denied** for the following reasons:

- Groundwater VOC concentrations in MW-1 and MW-2 are still consistently above AWQSGVs
- 2. NYSDEC and NYSDOH would like to see at least two consecutive quarters of non-detect concentrations or concentrations below the AWQSGVs before considering termination of the groundwater monitoring program.
 - a. Additionally, NYSDEC and NYSDOH would like to continue monitoring until the 2024-2025 PRR is submitted after which Langan may again request to terminate the groundwater monitoring program with supporting data as part of the PRR conclusion for NYSDEC and NYSDOH review.

Please let me know if you have any questions.

Best, Marlen

Marlen Salazar

Pronouns: She/her/hers

Engineer Trainee, Superfund and Brownfield Cleanup Section A, Region 2, Division of Environmental Remediation

New York State Department of Environmental Conservation 47-40 21st Street, Long Island City, New York 11101 P: 718-482-7129 | marlen.salazar@dec.ny.gov













From: Lexi Haley < lhaley@langan.com> Sent: Tuesday, September 10, 2024 5:55 PM

To: Salazar, Marlen C (DEC) < Marlen. Salazar@dec.ny.gov>

Cc: Kimberly Semon <ksemon@langan.com>; Brian Gochenaur <bgochenaur@Langan.com> Subject: RE: 27-01 Jackson Avenue - Off-Site (S241209) - Q8 Groundwater Monitoring Report

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Good afternoon Marlen,

Please see below for a link to the 8th quarterly sampling report for 27-01 Jackson Avenue. As discussed in our previous conversation, overall result trends for each monitoring well show bulk reduction in petroleum-related VOCs, and asymptotic levels appear to have been achieved. Further decline of contaminant of concern concentrations is not anticipated; therefore, as part of the 8th quarterly groundwater monitoring report, Langan is requesting the discontinuation of groundwater monitoring at the site.

https://clients.langan.com/Sharing/filesharing/ViewPosted?transactionHash=-1672278986

Name	Type	Cino
Name	Type	Size

2024-08 - Q8 Groundwater Monitoring Letter Report.pdf	.pdf	12.76 MB
Let us know if you have any que	stions.	
Thank you,		
Lexi Haley Senior Staff Engineer		
LANGAN		
Direct: 212.479.5499 x5656 Mobile: 332.208.2127 File Sharing Link www.langan.com NEW YORK NEW JERSEY CONNECTICUT OHIO ILLINOIS NORTH CAROLINA TENN ATHENS CALGARY DUBAI LONDON PA	IESSEE FLORIDA TEXAS ARIZONA CO	RGINIA WASHINGTON, DC LORADO UTAH WASHINGTON CALIFORNIA
Cc: Kimberly Semon < ksemon@lang Subject: RE: 27-01 Jackson Avenue Understood, thank you Marlen. \ Best, Lexi Haley	n.Salazar@dec.ny.gov>; Brian Goch gan.com> - Off-Site (S241209) - Q8 Results	nenaur < bgochenaur@Langan.com > ready for your review by the end of next week.
Senior Staff Engineer		
LANGAN		
Direct: 212.479.5499 x5656 Mobile: 332.208.2127 File Sharing Link www.langan.com		
NEW YORK NEW JERSEY CONNECTICUT OHIO ILLINOIS NORTH CAROLINA TENN ATHENS CALGARY DUBAI LONDON PA	IESSEE FLORIDA TEXAS ARIZONA CO	RGINIA WASHINGTON, DC LORADO UTAH WASHINGTON CALIFORNIA

From: Salazar, Marlen C (DEC) < Marlen. Salazar@dec.ny.gov>

Sent: Thursday, August 22, 2024 7:43 AM

To: Brian Gochenaur

logochenaur@Langan.com; Lexi Haley logoc

Cc: Kimberly Semon <ksemon@langan.com>

Subject: [External] RE: 27-01 Jackson Avenue - Off-Site (\$241209) - Q8 Results

You could do both honestly (like a zoom-in on one of the scales), but don't worry about it too much I suppose. The tables will have all the data regardless which I can refer to.

Best, Marlen

Marlen Salazar

Pronouns: She/her/hers

Engineer Trainee, Superfund and Brownfield Cleanup Section A, Region 2, Division of Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, New York 11101 P: 718-482-7129 | marlen.salazar@dec.ny.gov

















From: Brian Gochenaur <bgochenaur@Langan.com>

Sent: Thursday, August 22, 2024 7:40 AM

To: Salazar, Marlen C (DEC) < Marlen.Salazar@dec.ny.gov >; Lexi Haley < lhaley@langan.com >

Cc: Kimberly Semon <ksemon@langan.com>

Subject: RE: 27-01 Jackson Avenue - Off-Site (S241209) - Q8 Results

unexpected emails

Hi Marlen – We typically show the wells on different scales in the report, we just wanted to show all the graphs on the same scale to demonstrate that asymptotic levels were achieved. I felt like the zoomed in scale on some and not others illustrated a skewed perspective, but we can change it back for the report. Thx

Brian Gochenaur, QEP **Associate Principal**

LANGAN

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NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA ATHENS CALGARY DUBAI LONDON PANAMA

From: Salazar, Marlen C (DEC) < Marlen.Salazar@dec.ny.gov>

Sent: Thursday, August 22, 2024 7:35 AM To: Lexi Haley < lhaley@langan.com>

Cc: Brian Gochenaur <bgochenaur@Langan.com>; Kimberly Semon <ksemon@langan.com>

Subject: [External] RE: 27-01 Jackson Avenue - Off-Site (\$241209) - Q8 Results

Hi Lexi.

I'll wait to receive the Q4 groundwater monitoring report. For the graphs, is it possible to use a smaller scale on the yaxis for all wells except MW-2? The concentrations of MW-1, MW-3, and MW-4 are all much less than 500 ug/L so the large y-axis scale makes getting any sort of visual information from the graphs a bit difficult.

Roughly around when can I expect to receive this report too? I'll keep an eye out for it.

Best, Marlen

Marlen Salazar

Pronouns: She/her/hers

Engineer Trainee, Superfund and Brownfield Cleanup Section A, Region 2, Division of Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, New York 11101 P: 718-482-7129 | marlen.salazar@dec.ny.gov

www.dec.ny.gov | ff | X | @ |











From: Lexi Haley < lhaley@langan.com> Sent: Wednesday, August 21, 2024 3:36 PM

To: Salazar, Marlen C (DEC) < Marlen. Salazar@dec.ny.gov>

Cc: Brian Gochenaur <bgochenaur@Langan.com>; Kimberly Semon <ksemon@langan.com>

Subject: 27-01 Jackson Avenue - Off-Site (S241209) - Q8 Results

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

Good afternoon Marlen,

We have completed Q8 of groundwater sampling at the 27-01 Jackson Avenue site. The overall result trends for each monitoring well are attached for your review, which show a bulk reduction in petroleum-related VOCs to asymptotic levels over the course of the monitoring program. The trends will be included in the forthcoming quarterly report for the site.

Considering VOCs were non-detect in wells MW-3 and MW-4 for consecutive quarters, DEC previously approved the discontinuation of groundwater monitoring at these locations. Groundwater monitoring has continued at MW-1 and MW-2. Based on the Q8 analytical data, total VOCs and total BTEX concentrations have decreased by 95% and 100%, respectively, in MW-1 and by over 99% in MW-2. Based on review of the overall analytical data provided over the course of the monitoring program, it appears that the remedy was effective in demonstrating a bulk reduction of these contaminants. Asymptotic levels appear to have been achieved, and further decline of contaminant of concern concentrations is not anticipated. Therefore, as part of our forthcoming quarterly groundwater monitoring report, Langan will be requesting the discontinuation of groundwater monitoring at the site.

Thank you,

Lexi Haley Senior Staff Engineer

LANGAN

Direct: 212.479.5499 x5656 Mobile: 332.208.2127 File Sharing Link

Phone: 212.479.5400 Fax: 212.479.5444

360 West 31st Street

8th Floor

New York, NY 10001-2727

www.langan.com

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ATHENS CALGARY DUBAI LONDON PANAMA

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ATTACHMENT B Daily Site Observation Report



SITE OBSERVATION REPORT

PROJECT No.: 170472002

PROJECT: 27-01 Jackson Avenue

LOCATION: Long Island City, NY

CONTRACTOR: Lions Group NYC

LANGAN

Olivia O'Donnell

CONTRACTOR: Lions Group NYC REP. : Olivia O'Donnell

CONTRACTOR'S EQUIPMENT:
N/A

PRESENT AT SITE:
Olivia O'Donnell – Langan

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-1 and MW-2. 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 Pace Analytical (Pace) of Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Accredited Program (ELAP)-certified laboratory under standard chain-of-custody protocols.

Anticipated Activities

• Further assessment of groundwater sample analytical results will determine future site activities, if required by the NYSDEC.

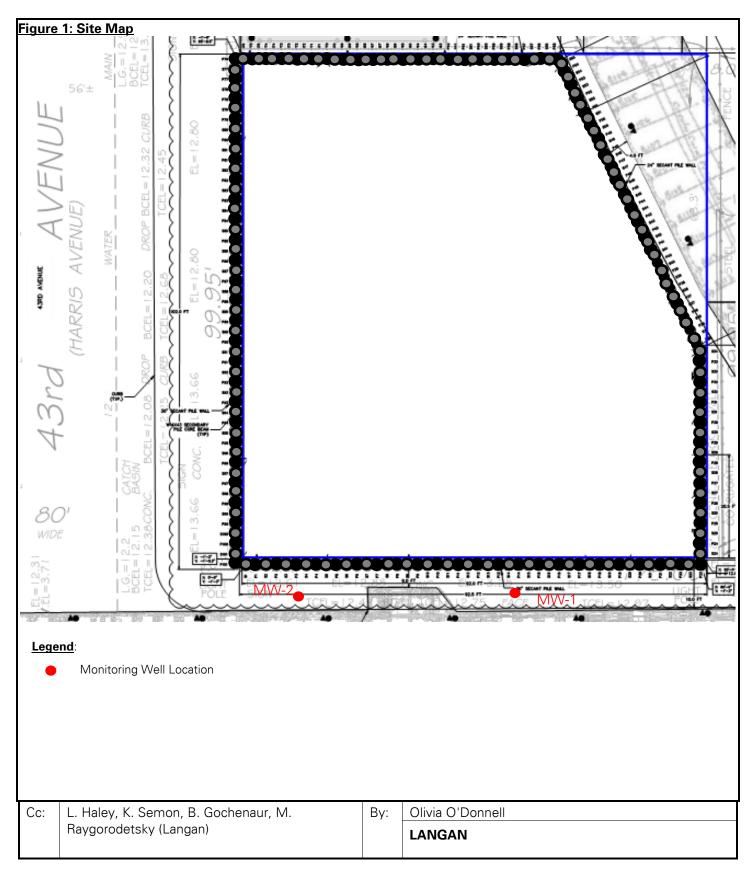
Cc:	L. Haley, K. Semon, B. Gochenaur, M.	Ву:	Olivia O'Donnell
	Raygorodetsky (Langan)		LANGAN



Langan PN: 170472002

04/16/2025 Page 2 of 3

SITE OBSERVATION REPORT





Langan PN: 170472002

04/16/2025 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 east).

Cc:	L. Haley, K. Semon, B. Gochenaur, M.	Ву:	Olivia O'Donnell
	Raygorodetsky (Langan)		LANGAN

ATTACHMENT C Well Purging and Sampling Logs

Project Information	1	Well Info	rmation	Equipment Information				Sampling Condi	tions	Sampling Information	
Project Name:	27-01 Jackson Ave	Well No:	MW-1	Water Qua	lity Device Model:	Horiba U-52		Weather:	Partly Cloudy, 48°F		MW-1_041625
Project Number:	170472002	Well Depth:	19 ft		Pine Number:	216089	Background PID (ppm):		0.0	Sample(s):	DUP01_041625
Site Location:	Long Island City, NY	Well Diameter:	2-inch	Pump	Make and Model:	Peristaltic Pump	PID Beneath Inner Cap (ppm):		0.0		MS/MSD
Sampling	Olivia O'Donnell	Well Screen	9 ft		Pine Number:	23014		ımp Intake Depth:	18.00	Sample Date:	4/16/2025
	Olivia O Dorilleli	Interval:	19 ft		Tubing Diameter:			ater Before Purge:	15.3	Sample Time:	11:20
STABILIZATION = 3 successive readings within limits											
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative Discharge		
									Volume (Gal)		Stabilized?
					(+/- 10%) above	(+/- 10%) above	Drawdown <		Volume (Gai)		
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	0.33 ft	<0.13 gpm)		color, odor etc.	
					BE	GIN PURGING					
10:45	15.32	6.47	21	1.830	35.9	0.00	15.70	N/A	0.25		N
10:50	15.60	6.65	20	1.820	31.7	0.00	16.30	0.05	0.50		N
10:55	16.01	6.89	-30	1.830	23.0	0.00	16.80	0.05	0.75	Charles and the state of	N
11:00	16.07	6.98	-37	1.860	22.1	0.00	17.00	0.05	1.00	Clear to gray color, odorless;	N
11:05	16.09	7.04	-45	1.860	31.9	0.00	18.70	0.05	1.25	poor recharge	N
11:10	16.10	7.04	-46	1.850	31.8	0.00	18.90	0.05	1.50		N
11:15	16.08	7.00	-46	1.840	32.8	0.00	19.00	0.05	1.75		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. 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.
368 Ninth Avenue, 8th Floor, New York

Project Information	on	Well Info	rmation		Equipment Informa	ntion		Sampling Condi	itions	Sampling Information	
Project Name:	27-01 Jackson Ave	Well No:	MW-2	Water Qua	lity Device Model:			Weather:			
Project Number:	170472002	Well Depth:	20 ft		Pine Number:			ground PID (ppm):		Sample(s):	MW-2_041625
Site Location:	Long Island City, NY	Well Diameter:	1-inch	Pump	Make and Model:	Peristaltic Pump	PID Beneath Inner Cap (ppm):				
Sampling	Olivia O'Donnell	Well Screen			Pine Number:	23014	Pi	ump Intake Depth:		Sample Date:	
	Olivia O Dollileli	Interval:	20 ft		Tubing Diameter:	3/8-inch OD	Depth to W	ater Before Purge:	13.85	Sample Time:	13:35
						а					
	TEMP	PH	ORP	CONDUCTIVITY	TURBIDITY	DO	DTW	Flow Rate		NOTES	
	°Celsius		mV	mS/cm	ntu	mg/l	ft	(gpm)	Cumulative Discharge		
									Volume (Gal)		Stabilized?
					(+/- 10%) above	(+/- 10%) above	Drawdown		Volume (Gai)		
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	5 NTU	0.5 mg/l	< 0.33 ft	(<0.13 gpm)		color, odor etc.	
						BEGIN PURGING					
12:30	15.44	7.65	154	0.81	16.1	1.45	N/A	N/A	0.30		N
12:35	15.60	8.29	120	0.90	9.2	1.37	N/A	0.03	0.45		N
12:40	15.68	8.45	111	0.97	7.2	1.11	N/A	0.03	0.60		N
12:45	15.85	8.59	102	1.07	4.8	1.33	N/A	0.03	0.75		N
12:50	15.92	8.68	95	1.16	3.8	1.21	N/A	0.03	0.90		N
12:55	15.96	8.77	90	1.37	2.2	1.14	N/A	0.03	1.05	Clear to gray color, odorless; black	N
13:00	15.98	8.80	85	1.45	0.0	1.87	N/A	0.03	1.20	particulates in purged water	N
13:05	15.98	8.86	84	1.60	0.0	2.11	N/A	0.03	1.35	particulates in purged water	N
13:10	15.87	8.89	83	1.64	1.7	2.02	N/A	0.03	1.50		N
13:15	15.97	8.93	80	1.76	1.9	1.89	N/A	0.03	1.65		N
13:20	15.84	8.94	79	1.79	2.1	1.85	N/A	0.03	1.80		N
13:25	15.90	8.96	77	1.94	1.7	1.71	N/A	0.03	1.95		N
13:30	16.02	8.99	75	2.06	2.3	1.60	N/A	0.03	2.10		N

- 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. pH = Hydrogen ion concentration
 6. GRP = Oxidation-reduction potential, measured in millivolts (mV)
 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
 8. DTW = Depth to water

- S. DVV = Septil to Water
 S. DVV = Se

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 368 Ninth Avenue, 8th Floor, New York

ATTACHMENT D Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number: L2523357

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 AVE

Project Number: 170472002 Report Date: 04/23/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services 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).



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

 Lab Number:
 L2523357

 Report Date:
 04/23/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2523357-01	MW-1_041625	WATER	LONG ISLAND CITY, QUEENS	04/16/25 11:20	04/16/25
L2523357-02	MW-2_041625	WATER	LONG ISLAND CITY, QUEENS	04/16/25 13:35	04/16/25
L2523357-03	DUP01_041625	WATER	LONG ISLAND CITY, QUEENS	04/16/25 00:00	04/16/25
L2523357-04	FB01_041625	WATER	LONG ISLAND CITY, QUEENS	04/16/25 09:45	04/16/25
L2523357-05	TB01_041625	WATER	LONG ISLAND CITY, QUEENS	04/16/25 00:00	04/16/25



L2523357

Lab Number:

Project Name: 27-01 JACKSON AVE

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

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

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

HOLD POLICY - For samples submitted on hold, Pace'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 Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Todos contact i rojost managomont at coo oz i ozzo man any quociono.									

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



Project Name: 27-01 JA

27-01 JACKSON AVE

Lab Number:

L2523357

Project Number:

170472002

Report Date:

04/23/25

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.

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.

Cattlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

Date: 04/23/25

ORGANICS



VOLATILES



04/16/25 11:20

Not Specified

04/16/25

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

SAMPLE RESULTS

L2523357

Lab Number:

Date Collected:

Date Received:

Field Prep:

Report Date: 04/23/25

Lab ID: L2523357-01

Client ID: MW-1_041625

Sample Location: LONG ISLAND CITY, QUEENS

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/23/25 01:56

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westl	borough 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



L2523357

Project Name: 27-01 JACKSON AVE **Lab Number:**

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-01 Date Collected: 04/16/25 11:20

Client ID: MW-1_041625 Date Received: 04/16/25
Sample Location: LONG ISLAND CITY, QUEENS 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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-01 Date Collected: 04/16/25 11:20

Client ID: MW-1_041625 Date Received: 04/16/25
Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westbo	rough 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	98	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	103	70-130	



L2523357

04/16/25 13:35

Not Specified

04/16/25

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

SAMPLE RESULTS

Lab Number:

Date Collected:

Date Received:

Field Prep:

Report Date: 04/23/25

Lab ID: L2523357-02 Client ID: MW-2_041625

Sample Location: LONG ISLAND CITY, QUEENS

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/23/25 02:22

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - West	borough 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	2.7		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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-02 Date Collected: 04/16/25 13:35

Client ID: MW-2_041625 Date Received: 04/16/25
Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

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Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Telebras others	ND		//	0.50	0.40	_
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	<u> </u>
Methyl tert butyl ether	ND		ug/l	2.5	0.17	<u> </u>
p/m-Xylene	5.2		ug/l	2.5	0.70	<u> </u>
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	5.2		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	9.3		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	0.70	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	3.2		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.92	J	ug/l	2.5	0.70	1
			-			



Project Name: 27-01 JACKSON AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-02 Date Collected: 04/16/25 13:35

Client ID: MW-2_041625 Date Received: 04/16/25 Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westb	orough Lab						
n-Propylbenzene	6.2		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	2.3	J	ug/l	2.5	0.70	1	
1,2,4-Trimethylbenzene	21		ug/l	2.5	0.70	1	
1,4-Dioxane	ND		ug/l	250	61.	1	
p-Diethylbenzene	3.3		ug/l	2.0	0.70	1	
p-Ethyltoluene	7.4		ug/l	2.0	0.70	1	
1,2,4,5-Tetramethylbenzene	5.0		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	98	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	99	70-130	



L2523357

04/16/25 00:00

Not Specified

04/16/25

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

SAMPLE RESULTS

Report Date: 04/23/25

Lab Number:

Date Collected:

Date Received:

Field Prep:

Lab ID: L2523357-03 Client ID: DUP01_041625

Sample Location: LONG ISLAND CITY, QUEENS

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/23/25 02:47

Analyst: MJV

Volatile Organics by GC/MS - Westborough La Methylene chloride 1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene Trichlorofluoromethane	b ND				
1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene	ND				
Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene		ug/l	2.5	0.70	1
Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene	ND	ug/l	2.5	0.70	1
1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene	ND	ug/l	2.5	0.70	1
Dibromochloromethane 1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene	ND	ug/l	0.50	0.13	1
1,1,2-Trichloroethane Tetrachloroethene Chlorobenzene	ND	ug/l	1.0	0.14	1
Tetrachloroethene Chlorobenzene	ND	ug/l	0.50	0.15	1
Chlorobenzene	ND	ug/l	1.5	0.50	1
	ND	ug/l	0.50	0.18	1
Trichlorofluoromethane	ND	ug/l	2.5	0.70	1
	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: Lab Number: 27-01 JACKSON AVE L2523357

Project Number: Report Date: 170472002 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-03 Date Collected: 04/16/25 00:00

Client ID: Date Received: 04/16/25 DUP01_041625 Field Prep: Not Specified

Sample Location: LONG ISLAND CITY, QUEENS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - W	estborough Lab					
Trichlessethers	ND		//	0.50	0.40	_
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	<u> </u>
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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-03 Date Collected: 04/16/25 00:00

Client ID: DUP01_041625 Date Received: 04/16/25
Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westbo	rough 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	99	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	95	70-130	
Dibromofluoromethane	101	70-130	



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

SAMPLE RESULTS

Lab Number: L2523357

Report Date: 04/23/25

Lab ID: L2523357-04 Date Collected:

Client ID: FB01_041625 Sample Location: LONG ISLAND CITY, QUEENS Date Received: 04/16/25 Field Prep: Not Specified

04/16/25 09:45

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/23/25 03:13

Analyst: MJV

Volatile Organics by GC/MS - Westborough Methylene chloride 1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane	ND N	ug/l ug/l ug/l ug/l ug/l	2.5 2.5 2.5 0.50 1.0 0.50	0.70 0.70 0.70 0.13 0.14 0.15	1 1 1 1
1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane	ND ND ND ND ND ND ND	ug/l ug/l ug/l ug/l ug/l	2.5 2.5 0.50 1.0	0.70 0.70 0.13 0.14	1 1 1
Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane	ND ND ND ND	ug/l ug/l ug/l ug/l	2.5 0.50 1.0	0.70 0.13 0.14	1
Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane	ND ND ND ND	ug/l ug/l ug/l	0.50 1.0	0.13 0.14	1
1,2-Dichloropropane Dibromochloromethane	ND ND ND	ug/l ug/l	1.0	0.14	
Dibromochloromethane	ND ND	ug/l			1
	ND		0.50	0.15	
1.1.2 Trichloroothono				0	1
1, 1,2-1110100001111110	ND	ug/l	1.5	0.50	1
Tetrachloroethene		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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-04 Date Collected: 04/16/25 09:45

Client ID: FB01_041625 Date Received: 04/16/25
Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	jh 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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-04 Date Collected: 04/16/25 09:45

Client ID: FB01_041625 Date Received: 04/16/25 Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westbo	rough 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	100	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	102	70-130	



L2523357

04/16/25 00:00

Not Specified

04/16/25

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

SAMPLE RESULTS

Report Date: 04/23/25

Lab Number:

Date Collected:

Date Received:

Field Prep:

Lab ID: L2523357-05

Client ID: TB01_041625

Sample Location: LONG ISLAND CITY, QUEENS

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 04/23/25 03:38

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westl	borough 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 AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-05 Date Collected: 04/16/25 00:00

Client ID: TB01_041625 Date Received: 04/16/25 Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Trichloroethene	ND		ua/l	0.50	0.18	1
1,2-Dichlorobenzene	ND ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND ND		ug/l ug/l	2.5	0.70	1
·	ND ND				0.70	
1,4-Dichlorobenzene			ug/l	2.5		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
Taphalaiono	ND		ug, i	2.0	0.70	<u> </u>



Project Name: 27-01 JACKSON AVE Lab Number: L2523357

Project Number: 170472002 **Report Date:** 04/23/25

SAMPLE RESULTS

Lab ID: L2523357-05 Date Collected: 04/16/25 00:00

Client ID: TB01_041625 Date Received: 04/16/25 Sample Location: LONG ISLAND CITY, QUEENS Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	gh 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	99	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	95	70-130	
Dibromofluoromethane	103	70-130	



L2523357

Project Name: 27-01 JACKSON AVE Lab Number:

Project Number: 170472002 **Report Date:** 04/23/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 04/22/25 22:46

Analyst: TMS

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS - W	estborough Lab	for sample(s):	01-05 Batch:	WG2057453-5
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 AVE **Lab Number:** L2523357

Project Number: 170472002 **Report Date:** 04/23/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 04/22/25 22:46

Analyst: TMS

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS -	Westborough Lab	for sample(s):	01-05 Batch:	WG2057453-5
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



L2523357

Lab Number:

Project Name: 27-01 JACKSON AVE

1,8260D

04/22/25 22:46

Project Number: Report Date: 170472002 04/23/25

Method Blank Analysis Batch Quality Control

Analytical Date: Analyst: TMS

Analytical Method:

Parameter	Result	Qualifier Units	RL	MDL	
/olatile Organics by GC/MS -	Westborough Lab f	or sample(s): 01	-05 Batch:	WG2057453-5	
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
%Recovery Qu	ıalifier Criteria
99	70-130
98	70-130
93	70-130
102	70-130
	99 98 93



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number: L2523357

arameter	LCS %Recovery	LCSI Qual %Reco	,		RPD Qual Limits	
olatile Organics by GC/MS - Westh	oorough Lab Associat	ed sample(s): 01-05	Batch: WG2057453-3	WG2057453-4		
Methylene chloride	96	97	70-13	0 1	20	
1,1-Dichloroethane	97	100	70-13	3	20	
Chloroform	93	96	70-13	3	20	
Carbon tetrachloride	85	89	63-13	2 5	20	
1,2-Dichloropropane	95	97	70-13	0 2	20	
Dibromochloromethane	83	84	63-13	0 1	20	
1,1,2-Trichloroethane	92	91	70-13	0 1	20	
Tetrachloroethene	99	100	70-13	0 1	20	
Chlorobenzene	97	99	75-13	0 2	20	
Trichlorofluoromethane	90	94	62-15	60 4	20	
1,2-Dichloroethane	94	94	70-13	0	20	
1,1,1-Trichloroethane	88	90	67-13	0 2	20	
Bromodichloromethane	85	87	67-13	0 2	20	
trans-1,3-Dichloropropene	78	78	70-13	0	20	
cis-1,3-Dichloropropene	82	83	70-13	0 1	20	
1,1-Dichloropropene	97	100	70-13	3	20	
Bromoform	72	70	54-13	6 3	20	
1,1,2,2-Tetrachloroethane	86	84	67-13	0 2	20	
Benzene	96	99	70-13	3	20	
Toluene	97	100	70-13	3	20	
Ethylbenzene	95	98	70-13	3	20	
Chloromethane	79	80	64-13	0 1	20	
Bromomethane	80	86	39-13	9 7	20	



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number: L2523357

Parameter	LCS %Recovery	Qual	LCSD %Recover		%Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborou	gh Lab Associa	ated sample(s):	01-05 E	Batch: WG20574	153-3 WG205	7453-4	
Vinyl chloride	95		99		55-140	4	20
Chloroethane	100		100		55-138	0	20
1,1-Dichloroethene	90		93		61-145	3	20
trans-1,2-Dichloroethene	94		97		70-130	3	20
Trichloroethene	92		94		70-130	2	20
1,2-Dichlorobenzene	96		96		70-130	0	20
1,3-Dichlorobenzene	96		98		70-130	2	20
1,4-Dichlorobenzene	98		98		70-130	0	20
Methyl tert butyl ether	73		72		63-130	1	20
p/m-Xylene	100		100		70-130	0	20
o-Xylene	95		95		70-130	0	20
cis-1,2-Dichloroethene	94		98		70-130	4	20
Dibromomethane	90		90		70-130	0	20
1,2,3-Trichloropropane	93		89		64-130	4	20
Acrylonitrile	88		82		70-130	7	20
Styrene	95		95		70-130	0	20
Dichlorodifluoromethane	77		82		36-147	6	20
Acetone	77		77		58-148	0	20
Carbon disulfide	90		95		51-130	5	20
2-Butanone	86		81		63-138	6	20
Vinyl acetate	84		83		70-130	1	20
4-Methyl-2-pentanone	73		67		59-130	9	20
2-Hexanone	66		62		57-130	6	20



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number: L2523357

Parameter	LCS %Recovery	LCSD Qual %Recove	%Reco ery Qual Limit		RPD Qual Limits	
Volatile Organics by GC/MS - Westboroug	jh Lab Associa	ated sample(s): 01-05	Batch: WG2057453-3	WG2057453-4		
Bromochloromethane	100	100	70-130	0	20	
2,2-Dichloropropane	78	81	63-13	3 4	20	
1,2-Dibromoethane	91	89	70-13	2	20	
1,3-Dichloropropane	96	96	70-13	0	20	
1,1,1,2-Tetrachloroethane	84	85	64-13	0 1	20	
Bromobenzene	96	95	70-13	1	20	
n-Butylbenzene	100	100	53-13	6 0	20	
sec-Butylbenzene	100	100	70-13	0	20	
tert-Butylbenzene	96	99	70-13	3	20	
o-Chlorotoluene	99	100	70-13	0 1	20	
p-Chlorotoluene	94	98	70-13	0 4	20	
1,2-Dibromo-3-chloropropane	70	68	41-14	4 3	20	
Hexachlorobutadiene	95	97	63-13	2	20	
Isopropylbenzene	96	99	70-13	3	20	
p-Isopropyltoluene	97	99	70-13	2	20	
Naphthalene	82	81	70-13	1	20	
n-Propylbenzene	98	100	69-13	2	20	
1,2,3-Trichlorobenzene	90	90	70-13	0	20	
1,2,4-Trichlorobenzene	91	92	70-13	0 1	20	
1,3,5-Trimethylbenzene	97	98	64-13	0 1	20	
1,2,4-Trimethylbenzene	95	97	70-13	2	20	
1,4-Dioxane	62	58	56-16	2 7	20	
p-Diethylbenzene	95	97	70-13	2	20	



Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number: L2523357

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westboroug	gh Lab Associate	ed sample(s):	: 01-05 Bato	h: WG205	57453-3 WG205	7453-4			
p-Ethyltoluene	98		100		70-130	2		20	
1,2,4,5-Tetramethylbenzene	87		88		70-130	1		20	
Ethyl ether	89		88		59-134	1		20	
trans-1,4-Dichloro-2-butene	79		75		70-130	5		20	

	LCS	LCSD	Acceptance	
Surrogate	%Recovery Qual	%Recovery Qual	Criteria	
1,2-Dichloroethane-d4	100	98	70-130	
Toluene-d8	100	101	70-130	
4-Bromofluorobenzene	94	94	70-130	
Dibromofluoromethane	100	100	70-130	



Matrix Spike Analysis Batch Quality Control

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number:

L2523357

Report Date:

04/23/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/M Client ID: MW-1_041625	S - Westborou	gh Lab A	Associated sar	mple(s): 01-05	QC Batch ID: WG	32057453-6 \	WG2057453-7 QC	Samp	le: L2523357-01
Methylene chloride	ND	10	11	110	10	100	70-130	10	20
1,1-Dichloroethane	ND	10	11	110	11	110	70-130	0	20
Chloroform	ND	10	11	110	10	100	70-130	10	20
Carbon tetrachloride	ND	10	10	100	9.8	98	63-132	2	20
1,2-Dichloropropane	ND	10	11	110	11	110	70-130	0	20
Dibromochloromethane	ND	10	9.3	93	9.0	90	63-130	3	20
1,1,2-Trichloroethane	ND	10	10	100	9.9	99	70-130	1	20
Tetrachloroethene	ND	10	11	110	11	110	70-130	0	20
Chlorobenzene	ND	10	11	110	11	110	75-130	0	20
Trichlorofluoromethane	ND	10	11	110	11	110	62-150	0	20
1,2-Dichloroethane	ND	10	10	100	10	100	70-130	0	20
1,1,1-Trichloroethane	ND	10	10	100	10	100	67-130	0	20
Bromodichloromethane	ND	10	9.9	99	9.7	97	67-130	2	20
trans-1,3-Dichloropropene	ND	10	8.9	89	8.6	86	70-130	3	20
cis-1,3-Dichloropropene	ND	10	9.0	90	8.8	88	70-130	2	20
1,1-Dichloropropene	ND	10	12	120	11	110	70-130	9	20
Bromoform	ND	10	8.0	80	8.1	81	54-136	1	20
1,1,2,2-Tetrachloroethane	ND	10	9.5	95	9.4	94	67-130	1	20
Benzene	ND	10	11	110	11	110	70-130	0	20
Toluene	ND	10	11	110	11	110	70-130	0	20
Ethylbenzene	ND	10	11	110	11	110	70-130	0	20
Chloromethane	ND	10	9.4	94	9.2	92	64-130	2	20
Bromomethane	ND	10	6.7	67	7.2	72	39-139	7	20



Matrix Spike Analysis Batch Quality Control

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number:

L2523357

Report Date:

04/23/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS Client ID: MW-1_041625	- Westborou	igh Lab A	ssociated sar	mple(s): 01-05	QC Batch ID: WG	32057453-6 \	NG2057453-7 QC	Samp	ole: L2523	3357-01
Vinyl chloride	ND	10	12	120	11	110	55-140	9		20
Chloroethane	ND	10	13	130	12	120	55-138	8		20
1,1-Dichloroethene	ND	10	11	110	10	100	61-145	10		20
trans-1,2-Dichloroethene	ND	10	11	110	11	110	70-130	0		20
Trichloroethene	ND	10	10	100	10	100	70-130	0		20
1,2-Dichlorobenzene	ND	10	11	110	10	100	70-130	10		20
1,3-Dichlorobenzene	ND	10	11	110	11	110	70-130	0		20
1,4-Dichlorobenzene	ND	10	11	110	11	110	70-130	0		20
Methyl tert butyl ether	ND	10	8.3	83	8.2	82	63-130	1		20
p/m-Xylene	ND	20	22	110	22	110	70-130	0		20
o-Xylene	ND	20	22	110	21	105	70-130	5		20
cis-1,2-Dichloroethene	ND	10	11	110	11	110	70-130	0		20
Dibromomethane	ND	10	10	100	9.9	99	70-130	1		20
1,2,3-Trichloropropane	ND	10	10	100	9.9	99	64-130	1		20
Acrylonitrile	ND	10	9.8	98	9.1	91	70-130	7		20
Styrene	ND	20	21	105	21	105	70-130	0		20
Dichlorodifluoromethane	ND	10	9.2	92	9.2	92	36-147	0		20
Acetone	ND	10	10	100	8.6	86	58-148	15		20
Carbon disulfide	ND	10	11	110	11	110	51-130	0		20
2-Butanone	ND	10	7.2	72	10	100	63-138	33	Q	20
Vinyl acetate	ND	10	9.1	91	8.8	88	70-130	3		20
4-Methyl-2-pentanone	ND	10	8.1	81	8.0	80	59-130	1		20
2-Hexanone	ND	10	7.5	75	7.2	72	57-130	4		20



Matrix Spike Analysis Batch Quality Control

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number:

L2523357

Report Date:

04/23/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS Client ID: MW-1_041625	- Westborou	igh Lab A	ssociated sar	mple(s): 01-05	QC Batch ID: WG	32057453-6 \	NG2057453-7 QC	Samp	le: L2523357-01
Bromochloromethane	ND	10	11	110	11	110	70-130	0	20
2,2-Dichloropropane	ND	10	8.9	89	8.8	88	63-133	1	20
1,2-Dibromoethane	ND	10	10	100	9.6	96	70-130	4	20
1,3-Dichloropropane	ND	10	11	110	10	100	70-130	10	20
1,1,1,2-Tetrachloroethane	ND	10	9.7	97	9.4	94	64-130	3	20
Bromobenzene	ND	10	10	100	10	100	70-130	0	20
n-Butylbenzene	ND	10	11	110	11	110	53-136	0	20
sec-Butylbenzene	ND	10	11	110	11	110	70-130	0	20
tert-Butylbenzene	ND	10	11	110	11	110	70-130	0	20
o-Chlorotoluene	ND	10	11	110	11	110	70-130	0	20
p-Chlorotoluene	ND	10	11	110	11	110	70-130	0	20
1,2-Dibromo-3-chloropropane	ND	10	8.0	80	7.7	77	41-144	4	20
Hexachlorobutadiene	ND	10	10	100	11	110	63-130	10	20
Isopropylbenzene	ND	10	11	110	11	110	70-130	0	20
p-Isopropyltoluene	ND	10	11	110	11	110	70-130	0	20
Naphthalene	ND	10	9.4	94	9.4	94	70-130	0	20
n-Propylbenzene	ND	10	11	110	11	110	69-130	0	20
1,2,3-Trichlorobenzene	ND	10	10	100	10	100	70-130	0	20
1,2,4-Trichlorobenzene	ND	10	10	100	10	100	70-130	0	20
1,3,5-Trimethylbenzene	ND	10	11	110	11	110	64-130	0	20
1,2,4-Trimethylbenzene	ND	10	11	110	10	100	70-130	10	20
1,4-Dioxane	ND	500	440	88	420	84	56-162	5	20
p-Diethylbenzene	ND	10	11	110	11	110	70-130	0	20



Matrix Spike Analysis Batch Quality Control

Project Name: 27-01 JACKSON AVE

Project Number: 170472002

Lab Number:

L2523357

Report Date:

04/23/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS Client ID: MW-1_041625	S - Westborou	ıgh Lab As	ssociated sam	ple(s): 01-05	QC Batch ID: W	G2057453-6 \	WG2057453-7 QC	Samp	ole: L2523357-01
p-Ethyltoluene	ND	10	11	110	11	110	70-130	0	20
1,2,4,5-Tetramethylbenzene	ND	10	9.8	98	9.8	98	70-130	0	20
Ethyl ether	ND	10	9.9	99	9.7	97	59-134	2	20
trans-1,4-Dichloro-2-butene	ND	10	8.6	86	8.2	82	70-130	5	20

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
1,2-Dichloroethane-d4	101	99	70-130
4-Bromofluorobenzene	95	96	70-130
Dibromofluoromethane	100	98	70-130
Toluene-d8	100	99	70-130



Serial_No:04232511:50 *Lab Number:* L2523357

Project Name: 27-01 JACKSON AVE

Project Number: 170472002 **Report Date:** 04/23/25

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 рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2523357-01A	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01A1	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01A2	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01B	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01B1	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01B2	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01C	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01C1	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-01C2	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-02A	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-02B	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-02C	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-03A	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-03B	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-03C	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-04A	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-04B	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-04C	Vial HCI preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-05A	Vial HCl preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)
L2523357-05B	Vial HCl preserved	Α	NA		3.4	Υ	Absent		NYTCL-8260(14)



Project Name: Lab Number: 27-01 JACKSON AVE L2523357

170472002 **Report Date: Project Number:** 04/23/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. **EPA**

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

Environmental Protection Agency.

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

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated

using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

MS

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 AVE Lab Number: L2523357
Project Number: 170472002 Report Date: 04/23/25

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

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 AVE Lab Number: L2523357

Project Number: 170472002 Report Date: 04/23/25

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



Serial_No:04232511:50

Project Name: 27-01 JACKSON AVE Lab Number: L2523357

REFERENCES

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

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Serial_No:04232511:50

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

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Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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: lodomethane (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 - 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan 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 - 320 Forbes Blvd. Mansfield, MA 02048

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

Document Type: Form Pre-Qualtrax Document ID: 08-113

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Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance Title: Certificate/Approval Program Summary Revision 27

Published Date: 01/24/2025

Page 2 of 2

ID No.:17873

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

Document Type: Form

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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: Mariana Wissink, Langan Senior Staff Chemist

Date: April 30, 2025

Re: Data Usability Summary Report

For 27-01 Jackson Avenue

April 2025 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 2025 by Langan Engineering and Environmental Services at 27-01 Jackson Avenue. The samples were analyzed by Pace Analytical Laboratories, Inc. (NYSDOH NELAP registration # 11148) for volatile organic compounds (VOCs) by the methods specified below.

VOCs by SW-846 Method 8260D

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.

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 L2523357 sample delivery groups 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:

Technical Memorandum

Data Usability Summary Report For 27-01 Jackson Avenue April 2025 Groundwater Samples Langan Project No.: 170472002 April 30, 2025 Page 2 of 3

- **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.

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).

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

%D	Percent Difference	МВ	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	ТВ	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

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.



Technical Memorandum

Data Usability Summary Report For 27-01 Jackson Avenue April 2025 Groundwater Samples Langan Project No.: 170472002

April 30, 2025 Page 3 of 3

VOCs by SW-846 Method 8260D

L2523357

The MS/MSD performed on sample MW-1_041625 exhibited a RPD above the control limit for 2-

butanone (33). Organic results are not qualified on the basis of MS/MSD recoveries alone. No

qualification is necessary.

FIELD DUPLICATES:

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 ±X 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_041625 and MW-1_041625

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:

Mariana Wissink

Senior Staff Chemist

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