

HALEY & ALDRICH OF NEW YORK 237 W 35th Street 16th Floor New York, NY 10001 646.277.5685

11 November 2022 File No. 0205805-001

New York City Office of Environmental Remediation 100 Gold Street, 2nd Floor New York NY 10038

Attention: William Quinones

Subject: Supplemental Remedial Investigation Report 817 Bedford Avenue Brooklyn, New York OER Project No. 22TMP1712K

Dear William Quinones:

On behalf of Mazel Mit Brucha 104 LLC, Haley & Aldrich of New York (Haley & Aldrich) is submitting for review and approval of the New York City Office of Environmental Remediation (NYCOER) this Supplemental Remedial Investigation (Supplemental RI) Report for the Site located at 817 Bedford Avenue in Brooklyn, NY (Site). The Site is listed with an environmental E-Designation (E-102) for hazardous materials resulting from a City Environmental Quality Review (CEQR) effective 9 May 2001 (CEQR # 00DCP015K) for the Flushing Bedford Rezoning Action. This Supplemental RI was conducted in response to the NYCOER's request for additional groundwater data for the Site. It is our understanding, based on correspondence with the NYCOER during the Remedial Action Work Plan Scoping call for the Site on 15 September 2022, that the NYCOER and New York State Department of Environmental Conservation (NYSDEC) seek to better understand the presence of volatile organic compounds (VOCs), specifically chlorinated VOCs, in groundwater at the Site.

This Supplemental RI was designed to supplement the findings and information presented in the August 2022 RIR and should be reviewed as an Addendum to the August 2022 RIR. The scope of work detailed in this Supplemental RI Report was conducted in accordance with the NYSDEC's Technical Guidance for Site Investigation and Remediation" (DER-10 dated May 2010); the NYCOER-approved Remedial Investigation Work Plan dated July 2022; and per correspondence with the NYSDEC on 15 September 2022 and 9 November 2022.

SUPPLEMENTAL REMEDIAL INVESTIGATION ACTIVITIES

On 28 October 2022, Haley & Aldrich remobilized to the Site to install three permanent groundwater monitoring wells and collect three groundwater samples for VOC analysis. Drilling was performed utilizing a track-mounted sonic drill rig (Geoprobe®) operated by a licensed operator provided by Eastern Environmental Solutions (Eastern), a licensed drilling subcontractor.

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Drill rig refusal was encountered Site-wide at depths between 14 and 16 feet below ground surface (bgs) resulting from rocky subsurface conditions, consistent with the geology throughout this region of Brooklyn. Due to drill rig refusal, two of the three proposed wells were installed, and two groundwater samples were collected. The locations of groundwater samples collected during the July 2022 RI and the October 2022 Supplemental RI are displayed on Figure 1.

Two new permanent groundwater monitoring wells were installed at the Site during this Supplemental RI: TW-1 located in the eastern region of the Site and TW-3 located in the central region of the Site. Each well was installed to 40 feet bgs. Groundwater was encountered at approximately 30 ft bgs during the Supplemental RI.

Groundwater samples were collected in accordance the NYCOER-approved Remedial Investigation Work Plan dated July 2022, placed on ice in coolers immediately after sample collection, and transported under standard chain of custody protocols to Alpha Analytical for VOC analysis.

SUMMARY OF ANALYTICAL DATA

Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). A summary of the analytical data for the groundwater samples collected during the October 2022 Supplemental RI is provided below:

- Two VOCs were detected in one or both groundwater samples at concentrations exceeding AWQSs, including: chloroform in both samples, with a maximum concentration of 45 micrograms per liter (ug/L) in TW-3 (above the AWQS of 7 ug/L); and tetrachloroethene (PCE) in one sample, TW-1, with a concentration of 15 ug/L (above the AWQS of 5 ug/L). No other VOCs were detected above AWQSs in groundwater samples analyzed.
- Three chlorinated VOCs were detected above laboratory detection limits in one or both groundwater samples analyzed, including: cis-1,2-dichloroethene in one sample, TW-1, with a concentration of 1 ug/L; PCE in both samples, with a maximum concentration of 15 ug/L in TW-1, which exceeds the AWQS for PCE, as indicated above; and, trichloroethene in both samples, with a maximum concentration of 0.84 ug/L in TW-1.

Table 1 summarizes the analytical results for the two groundwater samples collected during the Supplemental RI. Figure 1 displays groundwater results that exceed AWQSs as well as all chlorinated VOCs detected in groundwater samples analyzed as part of the July 2022 RI and the October 2022 Supplemental RI. The analytical laboratory report for the samples collected during the October 2022 Supplemental RI is provided as Attachment 1.



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Please do not hesitate to contact us if there are any questions regarding this RI Addendum or any other aspects of the project.

Sincerely yours, HALEY & ALDRICH OF NEW YORK

ames M. Belle

James M. Bellew Principal

Suzanne M. Bell, P.E. Project Manager

umen

Elizabeth R. Scheuerman Assistant Project Manager

Attachments:

Table 1 – Groundwater Analytical Results - Volatile Organic Compounds Figure 1 – Volatile Organic Compounds in Groundwater Chemistry Map Appendix A – Laboratory Analytical Data Report from Alpha Analytical, dated 8 November 2022

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TABLES

Table 1: Groundwater Analytical Results - Volatile Organic Compounds Supplemental Remedial Investigation - October 2022 817 Bedford Avenue, Brooklyn, NY

LOCATION				-1	TW-3		
SAMPLING DATE	10/28/	-	10/28/2022				
SAMPLE ID LAB SAMPLE ID				02822 14-05	TW-3_102822 L2260714-06		
SAMPLE TYPE				14-05 TER	WATER		
SAMPLE DEPTH				35' bgs 35' bg			
	NY-AWQS	Units	Results	Qual	Results Qu		
Volatile Organics by GC/MS	-		l		1		
1,1,1,2-Tetrachloroethane	5	μg/L	2.5	U	2.5	U	
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	5	μg/L μg/L	2.5	U U	2.5 0.5	U U	
1,1,2,2-Trichloroethane	1	μg/L μg/L	1.5	U U	1.5	U	
1,1-Dichloroethane	5	μg/L	2.5	U	2.5	U	
1,1-Dichloroethene	5	μg/L	0.5	U	0.5	U	
1,1-Dichloropropene	5	μg/L	2.5	U	2.5	U	
1,2,3-Trichlorobenzene	5	μg/L	2.5	U	2.5	U	
1,2,3-Trichloropropane 1,2,4,5-Tetramethylbenzene	0.04	μg/L μg/L	2.5	U U	2.5	U U	
1,2,4-Trichlorobenzene	5	μg/L	2.5	U	2.5	U	
1,2,4-Trimethylbenzene	5	μg/L	2.5	U	2.5	U	
1,2-Dibromo-3-chloropropane	0.04	μg/L	2.5	U	2.5	U	
1,2-Dibromoethane	0.0006	μg/L	2	U	2	U	
1,2-Dichlorobenzene	3	μg/L	2.5	U U	2.5	U U	
1,2-Dichloroethane 1,2-Dichloroethene, Total	0.6	μg/L μg/L	0.5	1	0.5	U U	
1,2-Dichloropropane	1	μg/L	1	U	1	U	
1,3,5-Trimethylbenzene	5	μg/L	2.5	U	2.5	U	
1,3-Dichlorobenzene	3	µg/L	2.5	U	2.5	U	
1,3-Dichloropropane	5~	µg/L	2.5	U	2.5	U	
1,3-Dichloropropene, Total 1,4-Dichlorobenzene	~ 3	μg/L μg/L	0.5	U U	0.5	U	
1,4-Dichlorobenzene 1,4-Dioxane		μg/L μg/L	2.5	U U	2.5	U	
2,2-Dichloropropane	5	μg/L	2.5	U	2.5	U	
2-Butanone	50	μg/L	5	U	5	U	
2-Hexanone	50	μg/L	5	U	5	U	
4-Methyl-2-pentanone Acetone	~ 50	μg/L	5	<u> </u>	5	U	
Acetone Acrylonitrile	50	μg/L μg/L	2.1	1	5.5 5	U	
Benzene	1	μg/L	0.5	U	0.5	U	
Bromobenzene	5	μg/L	2.5	U	2.5	U	
Bromochloromethane	5	μg/L	2.5	U	2.5	U	
Bromodichloromethane	50	μg/L	2.5		3.7		
Bromoform Bromomethane	50 5	μg/L μg/L	2	U U	2	U	
Carbon disulfide	60	μg/L	5	U	5	U	
Carbon tetrachloride	5	μg/L	0.5	U	0.5	U	
Chlorobenzene	5	μg/L	2.5	U	2.5	U	
Chloroethane	5	μg/L	2.5	U	2.5	U	
Chloroform Chloromethane	7	μg/L	30 2.5	U	45 2.5	U	
cis-1,2-Dichloroethene	5	μg/L μg/L	1	1	2.5	U	
cis-1,3-Dichloropropene	0.4	μg/L	0.5	U	0.5	U	
Dibromochloromethane	50	μg/L	0.5	U	0.18	J	
Dibromomethane	5	μg/L	5	U	5	U	
Dichlorodifluoromethane	5~	μg/L	5	U	5	U	
Ethyl ether Ethylbenzene	~ 5	μg/L μg/L	2.5	U U	2.5	U U	
Hexachlorobutadiene	0.5	μg/L	2.5	U	2.5	U	
Isopropylbenzene	5	μg/L	2.5	U	2.5	U	
Methyl tert butyl ether	10	μg/L	2.5	U	2.5	U	
Methylene chloride	5	μg/L	2.5	<u>U</u>	2.5	U	
n-Butylbenzene	5	μg/L	2.5	<u>U</u>	2.5	U 11	
n-Propylbenzene Naphthalene	5	μg/L μg/L	2.5 2.5	UU	2.5 2.5	UU	
o-Chlorotoluene	5	μg/L	2.5	U	2.5	U	
o-Xylene	5	μg/L	2.5	U	2.5	U	
p-Chlorotoluene	5	μg/L	2.5	U	2.5	U	
p-Diethylbenzene	~ ~	μg/L	2	<u> </u>	2	<u>U</u>	
p-Ethyltoluene p-Isopropyltoluene	5	μg/L μg/L	2	U U	2	UU	
p/m-Xylene	5	μg/L μg/L	2.5	U	2.5	U	
sec-Butylbenzene	5	μg/L	2.5	U	2.5	U	
Styrene	5	μg/L	2.5	U	2.5	U	
tert-Butylbenzene	5	μg/L	2.5	U	2.5	U	
Tetrachloroethene	5	μg/L	15 2 E		1.8		
Toluene trans-1,2-Dichloroethene	5	μg/L μg/L	2.5 2.5	UU	2.5 2.5	U U	
trans-1,3-Dichloropropene	0.4	μg/L	0.5	U	0.5	U	
trans-1,4-Dichloro-2-butene	5	μg/L	2.5	U	2.5	U	
Trichloroethene	5	μg/L	0.84		0.38	J	
Trichlorofluoromethane	5	μg/L	2.5	<u>U</u>	2.5	U	
Vinyl acetate Vinyl chloride	~ 2	μg/L	5	U U	5	U 11	
Vinyi chloride Xylenes, Total	~	μg/L μg/L	2.5	U U	2.5	U	

1. Groundwater results are compared to the NYSDEC Technical and Operational Guidance Series

(TOGS) 1.1.1 Ambient Water Quality Standards (AWQS)

2. ~ = Regulatory limit for the analyte does not exist

3. μ g/L = micrograms per liter

A Exceedances of the NY-AWQS are shaded yellew Qualifiers: J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the reporting limit (RL); the value shown in the table is the RL.

FIGURES

							LEGEND PARCEL BOUNDARY SITE BOUNDARY MONITORING WELL LC GROUNDWATER SAME	CATION AND PLE LOCATION	
			TW-2 TW-2		THE	la.	NYSDEC Technical and Operat Ambient Water Quality Standard		
MTY BEACH	and the second se		/19/2022 7/19/2022					AWQS	Unit
	and the second sec		238471-01 L2238471-02		L'all	F	Analytes	AWUS	Unit
		e Organics by GC/MS		A Prist	NEL K		Volatile Organics by GC/MS	5	115/1
	the second of the second se	2-Dichloroethene 1.4 hloroethene 48					Tetrachloroethene	7	μg/L
	Contract the Real State	proethene 1.				The second se	Chloroform	/	μg/L
	LOCATION SAMPLING DATE LAB SAMPLE ID Volatile Organics by GC/MS Chloroform Tetrachloroethene Trichloroethene	TW-3 10/28/2022 L2260714-06 45 1.8 0.38	TW-3 TW-3 TW-3 TW-3 TW-3 TW-3 TW-3 TW-3	TW-2 TW-1 TW-1 10/28/2022 L2260714-05 30 1 J 15 0.84			NOTES 1. ALL LOCATIONS AND DIMENSION 2. AERIAL IMAGERY SOURCE: NEW 3. GROUNDWATER SAMPLE ANAL NEW YORK STATE DEPARTMENT (NYSDEC) TECHNICAL AND OPER AMBIENT WATER QUALITY STAND 4. EXCEEDANCES OF THE NYSDE 5. MICROGRAMS PER LITER (ug/L 6. TW-2 WAS A TEMPORARY MON AND SAMPLED ON 19 JULY 2022 A INVESTIGATION. 7. TW-1 & TW-3 ARE PERMANENT INSTALLED AND SAMPLED ON 28 SUPPLEMENTAL REMEDIAL INVES 8. J - THE ANALYTE WAS DETECT LIMIT (MDL), BUT BELOW THE REI RESULT IS AN ESTIMATED CONC	ARMAP, 27 FEBRUARY YTICAL RESULTS ARE OF ENVIRONMENTAL ATIONAL GUIDANCE S DARDS (AWQS) C AWQS ARE SHADEE). ITORING WELL THAT Y AS PART OF THE INITI/ MONITORING WELLS OCTOBER 2022 AS PA STIGATION. ED ABOVE THE METHY	2 2022 E COMPARED TO THE CONSERVATION SERIES (TOGS) 1.1.1 D YELLOW. WAS INSTALLED AL REMEDIAL THAT WERE ART OF THE OD DETECTION
							ROOKLYN, NEV	20 LE IN FEET VENUE VYORK ORGANIC COM	
	1 1 1	AN AND	11.			A CICLULA	NOVEMBER 2022	!	FIGURE 1







APPENDIX A Laboratory Analytical Data Report



ANALYTICAL REPORT

Lab Number:	L2262454
Client:	Haley & Aldrich
	237 West 35th Street
	16th Floor
	New York, NY 10123
ATTN:	Elizabeth Scheuerman
Phone:	(646) 277-5692
Project Name:	817 BEDFORD AVENUE
Project Number:	0205805
Report Date:	11/08/22

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name:817 BEDFORD AVENUEProject Number:0205805

 Lab Number:
 L2262454

 Report Date:
 11/08/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2262454-01	TW-1_102822	WATER	817 BEDFORD AVE, BROOKLYN, NY	10/28/22 16:45	10/28/22
L2262454-02	TW-3_102822	WATER	817 BEDFORD AVE, BROOKLYN, NY	10/28/22 18:45	10/28/22



Project Name:817 BEDFORD AVENUEProject Number:0205805

Lab Number: L2262454 Report Date: 11/08/22

Case Narrative

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

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

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

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

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

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



Project Name: 817 BEDFORD AVENUE Project Number: 0205805
 Lab Number:
 L2262454

 Report Date:
 11/08/22

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 11/08/22



ORGANICS



VOLATILES



		Serial_No	o:11082209:37
Project Name:	817 BEDFORD AVENUE	Lab Number:	L2262454
Project Number:	0205805	Report Date:	11/08/22
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2262454-01 TW-1_102822 817 BEDFORD AVE, BROOKLYN, NY	Date Collected: Date Received: Field Prep:	10/28/22 16:45 10/28/22 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 1,8260D 11/02/22 10:21 PID		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by GC/MS - Westborough Lab								
Methylene chloride	ND		ug/l	2.5	0.70	1		
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1		
Chloroform	30		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	15		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	2.5		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		



					Ś	Serial_No	:11082209:37
Project Name:	817 BEDFORD AVEN	UE			Lab Nu		L2262454
Project Number:	0205805				Report	Date:	11/08/22
	0200000	SAMP	LE RESULTS	6	Roport	Duto.	11/00/22
Lab ID:	L2262454-01				Date Col	lected:	10/28/22 16:45
Client ID:	TW-1_102822				Date Col		10/28/22 10.43
Sample Location:	817 BEDFORD AVE,	BROOKLYN	N, NY		Field Pre		Not Specified
		, ,					
Sample Depth:							
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics b	y GC/MS - Westboroug	h Lab					
Trichloroethene		0.84		ug/l	0.50	0.18	1
1,2-Dichlorobenzene		ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene		ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene		ND		ug/l	2.5	0.70	1
Methyl tert butyl ether		ND		ug/l	2.5	0.70	1
p/m-Xylene		ND		ug/l	2.5	0.70	1
o-Xylene		ND		ug/l	2.5	0.70	1
Xylenes, Total		ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene		1.0	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total		1.0	J	ug/l	2.5	0.70	1
Dibromomethane		ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane		ND		ug/l	2.5	0.70	1
Acrylonitrile		ND		ug/l	5.0	1.5	1
Styrene		ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane		ND		ug/l	5.0	1.0	1
Acetone		2.1	J	ug/l	5.0	1.5	1
Carbon disulfide		ND		ug/l	5.0	1.0	1
2-Butanone		ND		ug/l	5.0	1.9	1
Vinyl acetate		ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone		ND		ug/l	5.0	1.0	1
2-Hexanone		ND		ug/l	5.0	1.0	1
Bromochloromethane		ND		ug/l	2.5	0.70	1
2,2-Dichloropropane		ND		ug/l	2.5	0.70	1
1,2-Dibromoethane		ND		ug/l	2.0	0.65	1
1,3-Dichloropropane		ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	9	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-chloroprop	ane	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-lsopropyltoluene		ND		ug/l	2.5	0.70	1
Naphthalene		ND		ug/l	2.5	0.70	1



		Serial_No	p:11082209:37
Project Name:	817 BEDFORD AVENUE	Lab Number:	L2262454
Project Number:	0205805	Report Date:	11/08/22
	SAMPLE RESULTS		
Lab ID:	L2262454-01	Date Collected:	10/28/22 16:45
Client ID:	TW-1_102822	Date Received:	10/28/22
Sample Location:	817 BEDFORD AVE, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	114	70-130	
Dibromofluoromethane	107	70-130	



		Serial_N	p:11082209:37
Project Name:	817 BEDFORD AVENUE	Lab Number:	L2262454
Project Number:	0205805	Report Date:	11/08/22
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2262454-02 TW-3_102822 817 BEDFORD AVE, BROOKLYN, NY	Date Collected: Date Received: Field Prep:	10/28/22 18:45 10/28/22 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 1,8260D 11/02/22 10:40 PID		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by GC/MS - Westborough Lab								
Methylene chloride	ND		ug/l	2.5	0.70	1		
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1		
Chloroform	45		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	0.18	J	ug/l	0.50	0.15	1		
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1		
Tetrachloroethene	1.8		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	3.7		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		



					S	Serial_No	:11082209:37
Project Name:	817 BEDFORD AVENUE				Lab Nu	mber:	L2262454
Project Number:	0205805				Report	Date:	11/08/22
,	0200000	SAMP	LE RESULTS	5			11/00/22
Lab ID:	L2262454-02				Date Coll	ected.	10/28/22 18:45
Client ID:	TW-3_102822				Date Rec		10/28/22
Sample Location:	817 BEDFORD AVE, BR	ROOKLYN	I, NY		Field Pre		Not Specified
							·
Sample Depth: Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
	y GC/MS - Westborough La		qualition				
Volatile Organics b							
Trichloroethene		0.38	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene		ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene		ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene		ND		ug/l	2.5	0.70	1
Methyl tert butyl ether		ND		ug/l	2.5	0.70	1
p/m-Xylene		ND		ug/l	2.5	0.70	1
o-Xylene		ND		ug/l	2.5	0.70	1
Xylenes, Total		ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene		ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total		ND		ug/l	2.5	0.70	1
Dibromomethane		ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane		ND		ug/l	2.5	0.70	1
Acrylonitrile		ND		ug/l	5.0	1.5	1
Styrene		ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane		ND		ug/l	5.0	1.0	1
Acetone		5.5		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	220	ND ND		ug/l	2.5 2.5	0.70	1
1,2-Dibromo-3-chloroprop Hexachlorobutadiene		ND		ug/l	2.5	0.70	1
		ND		ug/l	2.5	0.70	1
Isopropylbenzene p-Isopropyltoluene		ND		ug/l	2.5	0.70	1
Naphthalene		ND		ug/l	2.5	0.70	1
марнинанене		UNI		ug/l	2.5	0.70	1



		Serial_No:11	082209:37
Project Name:	817 BEDFORD AVENUE	Lab Number:	L2262454
Project Number:	0205805	Report Date:	11/08/22
	SAMPLE RESULTS		
Lab ID:	L2262454-02	Date Collected: 1	0/28/22 18:45
Client ID:	TW-3_102822	Date Received: 1	0/28/22
Sample Location:	817 BEDFORD AVE, BROOKLYN, NY	Field Prep: N	lot Specified

Sample Depth:

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

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	112	70-130	
Dibromofluoromethane	112	70-130	



L2262454

11/08/22

Lab Number:

Report Date:

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

or 0110 / 111

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260DAnalytical Date:11/02/22 08:44Analyst:PID

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS -	Westborough Lab	for sample(s):	01-02 Batch:	WG1707450-5
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



L2262454

11/08/22

Lab Number:

Report Date:

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260DAnalytical Date:11/02/22 08:44Analyst:PID

arameter	Result C	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough Lab for	or sample(s): 01-02	Batch:	WG1707450-5
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70
Methyl tert butyl ether	ND	ug/l	2.5	0.70
p/m-Xylene	ND	ug/l	2.5	0.70
o-Xylene	ND	ug/l	2.5	0.70
Xylenes, Total	ND	ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND	ug/l	2.5	0.70
Dibromomethane	ND	ug/l	5.0	1.0
1,2,3-Trichloropropane	ND	ug/l	2.5	0.70
Acrylonitrile	ND	ug/l	5.0	1.5
Styrene	ND	ug/l	2.5	0.70
Dichlorodifluoromethane	ND	ug/l	5.0	1.0
Acetone	ND	ug/l	5.0	1.5
Carbon disulfide	ND	ug/l	5.0	1.0
2-Butanone	ND	ug/l	5.0	1.9
Vinyl acetate	ND	ug/l	5.0	1.0
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0
2-Hexanone	ND	ug/l	5.0	1.0
Bromochloromethane	ND	ug/l	2.5	0.70
2,2-Dichloropropane	ND	ug/l	2.5	0.70
1,2-Dibromoethane	ND	ug/l	2.0	0.65
1,3-Dichloropropane	ND	ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5	0.70
Bromobenzene	ND	ug/l	2.5	0.70
n-Butylbenzene	ND	ug/l	2.5	0.70
sec-Butylbenzene	ND	ug/l	2.5	0.70
tert-Butylbenzene	ND	ug/l	2.5	0.70



L2262454

11/08/22

Lab Number:

Report Date:

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260DAnalytical Date:11/02/22 08:44Analyst:PID

arameter	Result	Qualifier Units	s RL	MDL
olatile Organics by GC/MS - V	Vestborough Lat	o for sample(s):	01-02 Batch:	WG1707450-5
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/	2.5	0.70

		A	Acceptance
Surrogate	%Recovery Qu	ualifier	Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	109		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

Lab Number: L2262454 Report Date: 11/08/22

LCSD LCS RPD %Recovery %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1707450-3 WG1707450-4 Methylene chloride 110 110 70-130 0 20 120 1,1-Dichloroethane 120 70-130 0 20 Chloroform 100 110 70-130 10 20 Carbon tetrachloride 99 100 63-132 20 1 100 70-130 20 1,2-Dichloropropane 110 10 Dibromochloromethane 86 90 63-130 5 20 1.1.2-Trichloroethane 92 99 70-130 7 20 Tetrachloroethene 99 100 70-130 20 1 Chlorobenzene 100 100 75-130 0 20 Trichlorofluoromethane 88 88 62-150 0 20 1.2-Dichloroethane 96 100 70-130 4 20 1,1,1-Trichloroethane 100 100 67-130 0 20 Bromodichloromethane 92 96 67-130 20 4 70-130 20 trans-1,3-Dichloropropene 83 86 4 cis-1,3-Dichloropropene 89 93 70-130 4 20 1,1-Dichloropropene 96 100 70-130 4 20 Bromoform 77 83 54-136 20 8 1,1,2,2-Tetrachloroethane 67-130 20 94 100 6 70-130 20 Benzene 110 110 0 Toluene 110 110 70-130 0 20 Ethylbenzene 110 110 70-130 0 20 130 64-130 20 Chloromethane 130 0 20 Bromomethane 56 61 39-139 9



Lab Control Sample Analysis Batch Quality Control

Project Number: 0205805 Lab Number: L2262454 Report Date: 11/08/22

Parameter	LCS %Recovery	Qual	LCSI %Recov		%Recovery Limits	RPD	RPD Qual Limit	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	01-02 Bate	ch: WG170745	0-3 WG1707450-4			
Vinyl chloride	120		120		55-140	0	20	
Chloroethane	90		87		55-138	3	20	
1,1-Dichloroethene	85		85		61-145	0	20	
trans-1,2-Dichloroethene	110		110		70-130	0	20	
Trichloroethene	100		110		70-130	10	20	
1,2-Dichlorobenzene	100		100		70-130	0	20	
1,3-Dichlorobenzene	100		100		70-130	0	20	
1,4-Dichlorobenzene	100		100		70-130	0	20	
Methyl tert butyl ether	88		97		63-130	10	20	
p/m-Xylene	110		110		70-130	0	20	
o-Xylene	100		100		70-130	0	20	
cis-1,2-Dichloroethene	100		110		70-130	10	20	
Dibromomethane	93		99		70-130	6	20	
1,2,3-Trichloropropane	96		100		64-130	4	20	
Acrylonitrile	110		120		70-130	9	20	
Styrene	105		105		70-130	0	20	
Dichlorodifluoromethane	120		120		36-147	0	20	
Acetone	110		120		58-148	9	20	
Carbon disulfide	66		66		51-130	0	20	
2-Butanone	110		94		63-138	16	20	
Vinyl acetate	87		90		70-130	3	20	
4-Methyl-2-pentanone	94		100		59-130	6	20	
2-Hexanone	100		120		57-130	18	20	



Lab Control Sample Analysis Batch Quality Control

Project Number: 0205805 Lab Number: L2262454 Report Date: 11/08/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD imits
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-02 Batch:	WG1707450-3	WG1707450-4		
Bromochloromethane	99		99		70-130	0	20
2,2-Dichloropropane	110		110		63-133	0	20
1,2-Dibromoethane	92		94		70-130	2	20
1,3-Dichloropropane	97		100		70-130	3	20
1,1,1,2-Tetrachloroethane	89		91		64-130	2	20
Bromobenzene	98		100		70-130	2	20
n-Butylbenzene	100		100		53-136	0	20
sec-Butylbenzene	100		100		70-130	0	20
tert-Butylbenzene	100		100		70-130	0	20
o-Chlorotoluene	110		110		70-130	0	20
p-Chlorotoluene	110		110		70-130	0	20
1,2-Dibromo-3-chloropropane	94		99		41-144	5	20
Hexachlorobutadiene	89		94		63-130	5	20
Isopropylbenzene	110		110		70-130	0	20
p-Isopropyltoluene	97		99		70-130	2	20
Naphthalene	90		95		70-130	5	20
n-Propylbenzene	110		110		69-130	0	20
1,2,3-Trichlorobenzene	91		94		70-130	3	20
1,2,4-Trichlorobenzene	92		95		70-130	3	20
1,3,5-Trimethylbenzene	110		110		64-130	0	20
1,2,4-Trimethylbenzene	100		110		70-130	10	20
1,4-Dioxane	68		78		56-162	14	20
p-Diethylbenzene	100		100		70-130	0	20



Lab Control Sample Analysis Batch Quality Control

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

 Lab Number:
 L2262454

 Report Date:
 11/08/22

-	LCS	o 1	LCSD	• •	%Recovery		• •	RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	01-02 Batch:	WG1707450-3	WG1707450-4				
p-Ethyltoluene	110		110		70-130	0		20	
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20	
Ethyl ether	72		79		59-134	9		20	
trans-1,4-Dichloro-2-butene	96		110		70-130	14		20	

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qua	l %Recovery Qual	Criteria
1,2-Dichloroethane-d4	93	96	70-130
Toluene-d8	105	105	70-130
4-Bromofluorobenzene	112	113	70-130
Dibromofluoromethane	96	96	70-130



Project Name: 817 BEDFORD AVENUE Project Number: 0205805

Serial_No:11082209:37 Lab Number: L2262454 Report Date: 11/08/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal						
А	Absent						

Container Information

Container Information		Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2262454-01A	Vial HCI preserved	А	NA		2.0	Y	Absent		NYTCL-8260(14)
L2262454-01B	Vial HCI preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2262454-01C	Vial HCI preserved	А	NA		2.0	Y	Absent		NYTCL-8260(14)
L2262454-02A	Vial HCI preserved	А	NA		2.0	Y	Absent		NYTCL-8260(14)
L2262454-02B	Vial HCI preserved	А	NA		2.0	Y	Absent		NYTCL-8260(14)
L2262454-02C	Vial HCI preserved	А	NA		2.0	Y	Absent		NYTCL-8260(14)



Serial_No:11082209:37

Project Name: 817 BEDFORD AVENUE

Project Number: 0205805

Lab Number: L2262454

Report Date: 11/08/22

GLOSSARY

Acronyms

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

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Footnotes

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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 Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - 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.
- н - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs).

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



Project Name: 817 BEDFORD AVENUE Project Number: 0205805
 Lab Number:
 L2262454

 Report Date:
 11/08/22

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

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

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II.

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

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

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

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

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