

GROUNDWATER SAMPLING REPORT

**“CENTRAL BOULEVARD ELEMENTARY SCHOOL”
60 CENTRAL BOULEVARD
BETHPAGE, NEW YORK 11714**

**PREPARED FOR:
BETHPAGE UNION FREE SCHOOL DISTRICT
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**JCB PROJECT #: 21-49925
SEPTEMBER 2021**

**J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing**

**1775 Expressway Drive North
Hauppauge, New York 11788
631-584-5492 Fax: 631-584-3395**



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Section No. 1.0: Introduction

J.C. Broderick and Associates, Inc. (JCB) was retained by the Bethpage Union Free School District to perform annual groundwater sampling and analysis from three (3) existing groundwater monitoring wells located at the Central Boulevard Campus.

Section No. 2.0: Site Description and Location

The subject site is located at 60 Central Boulevard, Bethpage, New York 11714. The subject site is located on the west side of Central Boulevard, between Brenner Avenue to the North and Jean Avenue to the south. According to the United States Geological Survey (USGS) *Amityville, New York 1994 7.5 Minute Series* Topographical Map, the subject site is situated at an approximate elevation of 100 feet above mean sea level. The location of the subject site is shown on the Site Location Map Appendix-A Figure-1.

Section No. 3.0: Subsurface Investigation Procedures

The following sections summarizes the subsurface investigation performed. Please refer to the attachments of this document for additional details.

Section No. 3.1: Monitoring Well Gauging

On September 16, 2021, JCB checked the groundwater monitoring wells for the presence of light non-aqueous phase liquid (LNAPL) utilizing a Solinst® Model 122 Product/Water Interface Probe and depth to the groundwater table was recorded to the nearest 0.01 ft.

The following table summarizes the groundwater data:

Table No. 1: Depth to Groundwater Gauged with Interface Meter		
Well Number	Depth to Product (ft)	Depth to Groundwater (ft)
MW-1	No Product	37.62
MW-2	No Product	37.35
MW-3	No Product	37.49

Section No. 3.2: Groundwater Sampling

On September 16, 2021, JCB collected three (3) groundwater samples from the existing groundwater monitoring wells (MW-1, MW-2, and MW-3). Prior to sampling, the casing volume of each monitoring well was calculated and a minimum of three (3) casing volumes of water were purged utilizing a check valve. During the purging process, specific groundwater parameters were monitored by a YSI Multi-meter.

The following table summarizes the purged water testing.

Table No. 2: Groundwater Monitoring During Sample Collection					
MW-1	DTW (ft)	TD (ft)	Water Column (ft)		
	37.62	49.10	11.48		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
9:55	15.95	0.192	5.01	7.10	161.2
10:00	15.66	0.191	4.01	7.15	164.1
10:05	15.72	0.190	3.89	7.19	163.9
Samples Collected					
MW-2	DTW (ft)	TD (ft)	Water Column (ft)		
	37.35	49.10	11.75		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
10:20	15.62	.197	4.00	7.07	174.1
10:25	15.66	.212	3.89	7.03	175.0
10:30	15.72	.219	3.86	7.00	176.2
Samples Collected					
MW-3	DTW (ft)	TD (ft)	Water Column (ft)		
	37.49	49.21	11.72		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
10:45	15.93	.271	4.21	7.02	162.0
10:50	15.94	.278	3.38	7.11	160.9
10:55	15.75	.274	4.01	7.21	161.3
11:00	15.93	.273	3.98	7.22	162.4
Samples Collected					
Notes: DTW = Depth to Groundwater Table TD = Total Depth of Well Temp = Temperature in degrees Celsius TDS = Total Dissolved Solids on grams per liter DO = Dissolved Oxygen in percent pH = Potential of Hydrogen, unitless ORP = Oxygen-Reduction Potential in millivolts					

The following table summarizes the groundwater samples submitted for laboratory analysis:

Table No. 3: Summary of Groundwater Samples Submitted for Laboratory Analysis			
Sample ID#	Date Sampled	Description of Sample	Analysis Method
MW-1	9-16-2021	Monitoring Well No. 1	EPA 8260 + Freon EPA 903.0 & EPA 904.0
MW-2	9-16-2021	Monitoring Well No. 2	EPA 8260 + Freon EPA 903.0 & EPA 904.0
MW-3	9-16-2021	Monitoring Well No. 3	EPA 8260 + Freon EPA 903.0 & EPA 904.0
Notes: EPA = Environmental Protection Agency			

Section No. 4.0: Groundwater Laboratory Analytical Summary

Groundwater samples selected for laboratory analysis were placed into laboratory supplied containers, assigned individual identification numbers and then placed into an appropriately conditioned cooler. Chain of Custody documents were prepared, and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

Groundwater samples submitted for laboratory analysis were analyzed for volatile organic compounds (VOCs) plus Freon utilizing Environmental Protection Agency (EPA) Method 8260. York Analytical Laboratories, Inc. (York) provided laboratory analytical services. Copies of York’s NYSDOH certifications are available upon request

Groundwater samples submitted for laboratory analysis were analyzed for Radium 226 utilizing EPA Method 903.0, and for Radium 228 utilizing EPA Method 904.0. EMSL Analytical, Inc. (EMSL) provided laboratory analytical services. Copies of EMSL’s NYSDOH certifications are available upon request

The laboratory analytical results for the groundwater samples were reviewed and compared to Table No. 1 of the *Ambient Water Quality Standards and Guidance Values of the New York State Department of Environmental Conservation, Division of Water, Technical and Operational Guidance Series (TOGS) (1.1.1)*.

The following table summarizes the detected VOC analytical results in groundwater:

Table No. 4: Summary of Groundwater Sample VOCs Detected Analytical Results							
Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	MW-1		MW-2		MW-3	
York ID		2110784-01		2110784-02		2110784-03	
Sampling Date		9/16/2021		9/16/2021		9/16/2021	
Client Matrix		Water		Water		Water	
Compound		Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	ug/L	ug/L		ug/L		ug/L	
Dilution Factor		1		1		1	
Toluene	5	0.480	J	0.510		0.460	J
NOTES:							
Any Regulatory Exceedences are color coded by Regulation							
Q is the Qualifier Column with definitions as follows:							
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated							

The review of the laboratory VOC analysis revealed the following significant findings:

The laboratory analysis results from the groundwater samples submitted from MW-1, MW-2, and MW-3 did indicate detectable concentrations of toluene; however, the levels reported were below the above referenced guidance values for groundwater.

The following table summarizes the Radium analytical results in groundwater:

Table No. 5: Summary of Groundwater Radon Samples Analytical Results				
Client Sample ID	Allowable Standards	MW-1	MW-2	MW-3
EPA 903.0 & EPA 904	pCi/L	9/16/2021	9/16/2021	9/16/2021
Radium 226 (pCi/L)	3.0	0.337	0.148	0.630
Radium 228 (pCi/L)	5.0	0.120	0.0500	0.238

Notes:
 pCi/L = picocuries per liter

The review of the laboratory Radon analysis revealed the following significant findings:

The laboratory analysis results from the groundwater samples submitted from MW-1, MW-2, and MW-3 did indicate detectable concentrations of Radium 226 and Radium 228; however, the levels reported were below the above referenced guidance values for groundwater.

Section No. 5.0: Quality Assurance and Quality Control (QA/QC) Procedures

In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which came into contact with sample materials was decontaminated prior to each use. Equipment used for sample collection was wiped clean, washed in a solution of Alconox and thoroughly rinsed with potable water. New and dedicated polyethylene tubing was used for collection of each groundwater sample. All sampling personnel wore disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves were changed before each laboratory sample was collected. All collected samples were placed into an appropriately conditioned cooler for storage and were transported to the laboratory. Samples were maintained between 0°C and 8°C.

Section No. 6.0: Conclusions and Recommendations

Based on the findings of the current data collected during the subsurface investigation performed and reported to JCB, the following observations are made:

The laboratory analysis results from the groundwater samples submitted did not indicate any elevated concentrations of any VOCs above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

The laboratory analysis results from the groundwater samples submitted did not indicate any elevated concentrations of Radium 226 and Radium 228 above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

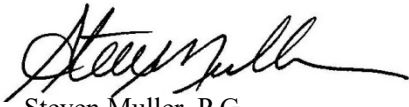
Based upon the detected concentrations of VOCs and Radium in the collected groundwater samples it is recommended that periodic groundwater and volatile vapor intrusion (VVI) sampling be continued to monitor site conditions. Radon sampling within the school building is currently scheduled for March 2022.

Sincerely,

J.C. Broderick & Associates, Inc.



Jeffrey V. Nannini
Environmental Scientist



Steven Muller, P.G.
Director – Subsurface Division

Appendix A

Figures



J.C. BRODERICK

& Associates

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Testing

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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

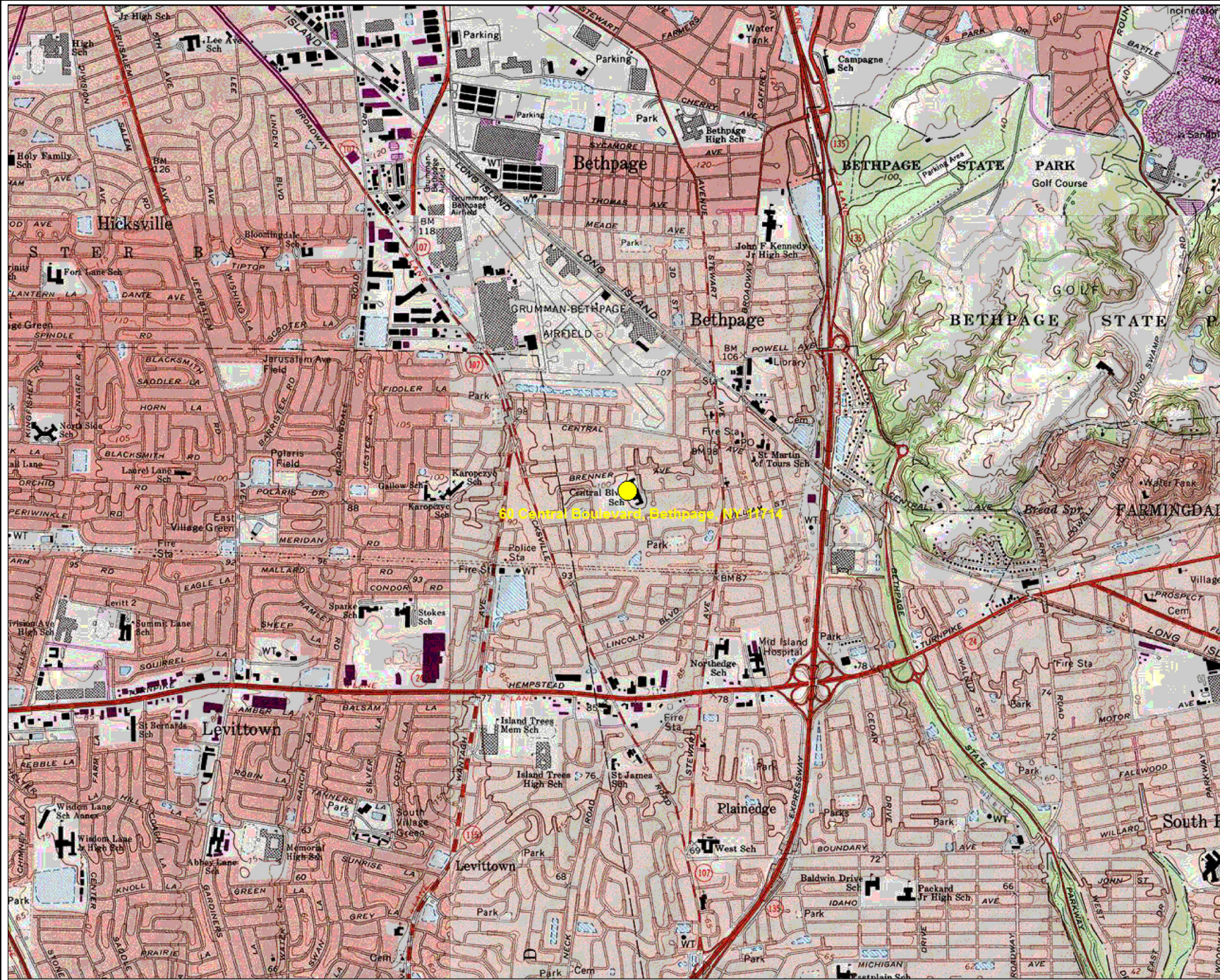
Figure No. 1
Site Location Map

Scale As Noted Project No. 21-49925 Date 09-16-2021

Drawn By J.V.N. Checked By S.W.M. Page No. 1 of 3

Drawing No.

1



JCB LEGEND
● SUBJECT SITE

Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)



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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 2

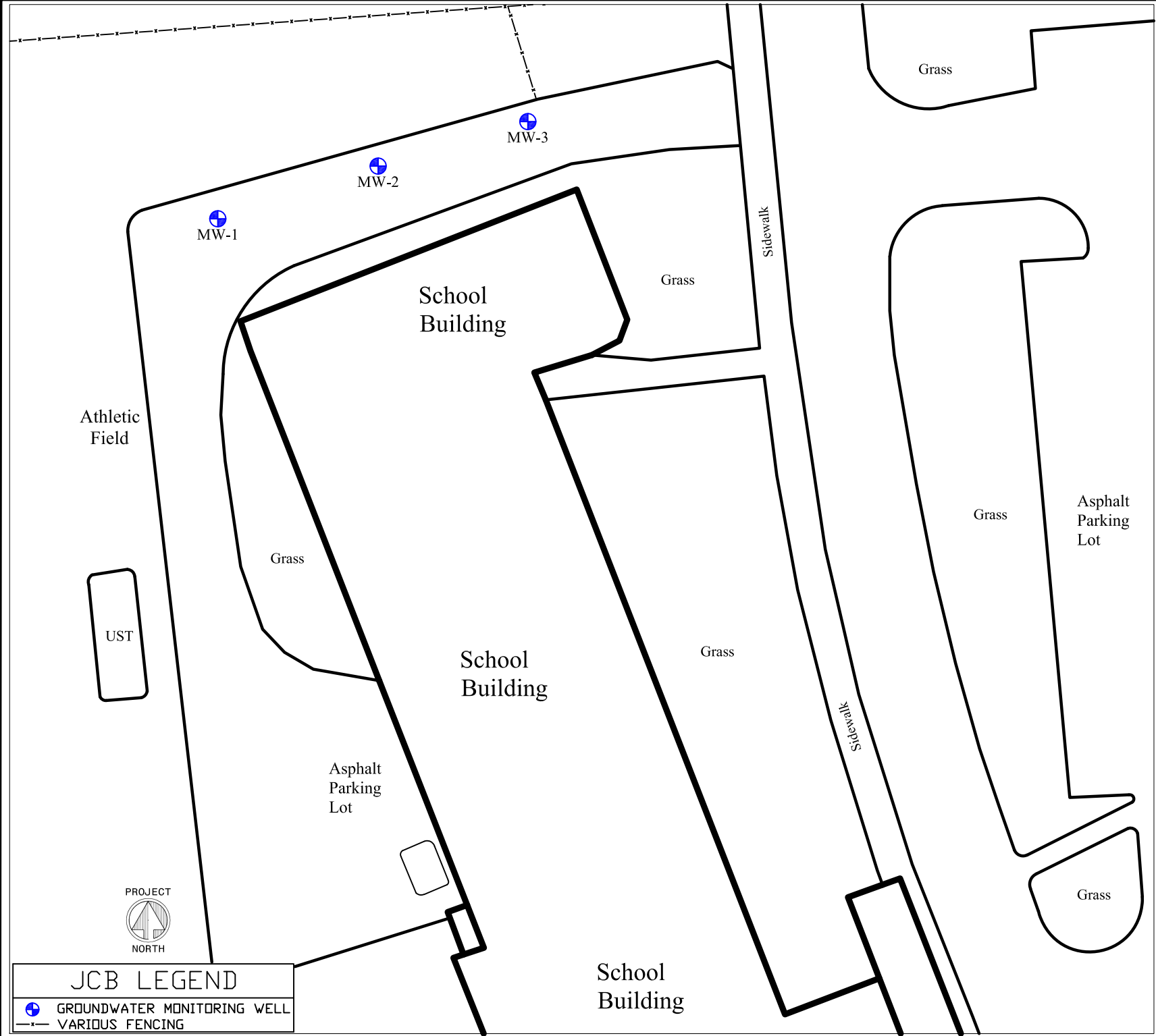
Monitoring Well
Locations
Map

Scale As Noted Project No. 21-49925 Date 09-16-2021

Drawn By J.V.N. Checked By S.W.M. Page No. 2 of 3

Drawing No.

2



JCB LEGEND

- GROUNDWATER MONITORING WELL
- VARIOUS FENCING



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Drawing Title

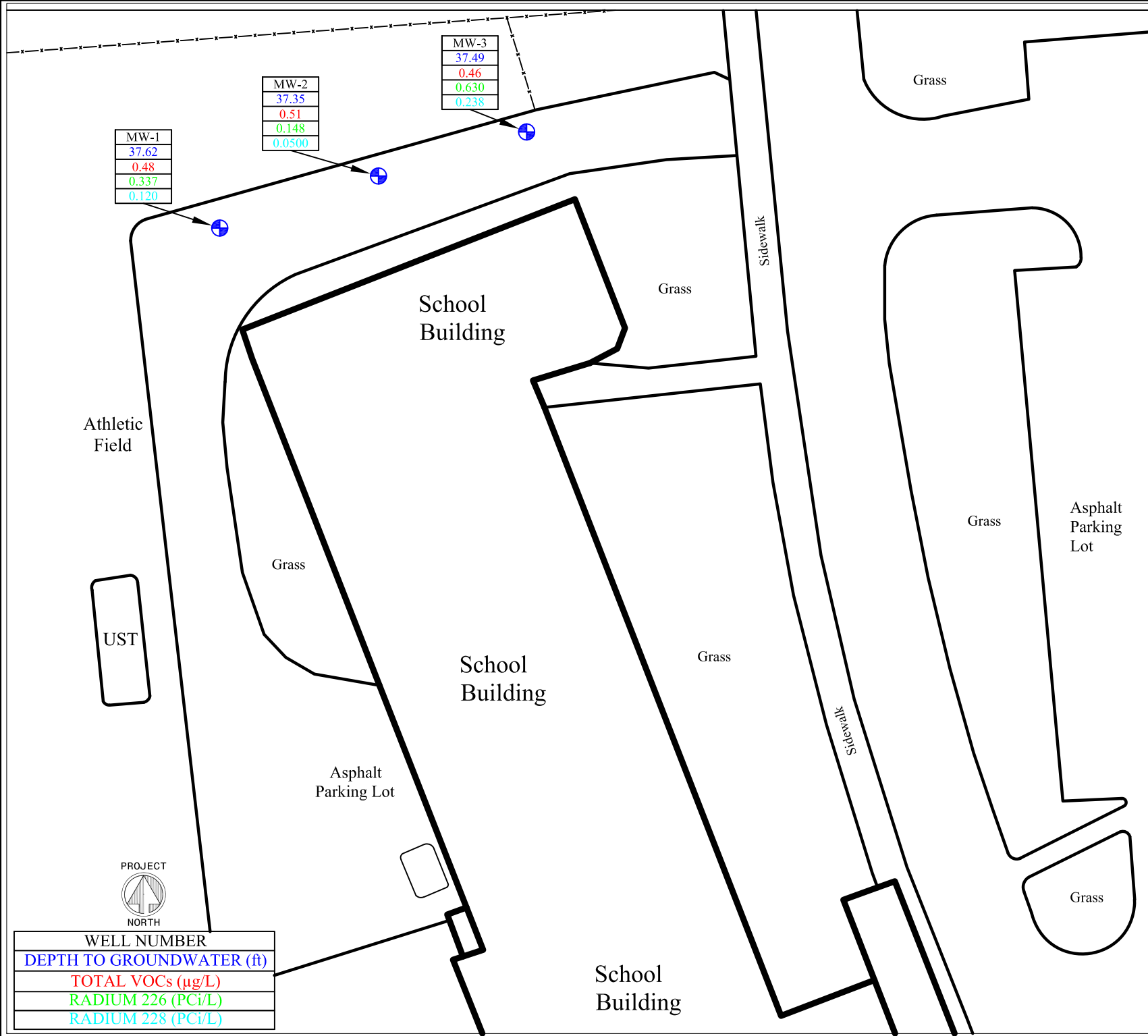
Figure No. 3
Analytical Results
Map

Scale As Noted Project No. 21-49925 Date 09-16-2021

Drawn By J.V.N. Checked By S.W.M. Page No. 3 of 3

Drawing No.

3



MW-1
37.62
0.48
0.337
0.120

MW-2
37.35
0.51
0.148
0.0500

MW-3
37.49
0.46
0.630
0.238

School Building

Grass

Grass

Sidewalk

Athletic Field

Grass

School Building

Grass

Grass

Asphalt Parking Lot

UST

Asphalt Parking Lot

Grass

School Building



WELL NUMBER
DEPTH TO GROUNDWATER (ft)
TOTAL VOCs (µg/L)
RADIUM 226 (PCi/L)
RADIUM 228 (PCi/L)

Appendix B

Field Photograph Logs

**Groundwater Monitoring Well Location
MW-1**



Field Photograph Log

Groundwater Sampling Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714**

Photo No. 01

JCB#: 21-49925

**Groundwater Monitoring Well Location
MW-2**



Field Photograph Log

Groundwater Sampling Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714**

Photo No. 02

JCB#: 21-49925

**Groundwater Monitoring Well Location
MW-3**



Field Photograph Log

Groundwater Sampling Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714**

Photo No. 03

JCB#: 21-49925

Groundwater Sampling Equipment



Field Photograph Log

Groundwater Sampling Report

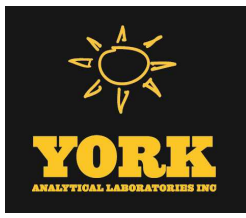
Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714

Photo No. 04

JCB#: 21-49925

Appendix C

Laboratory Analysis Reports



Technical Report

prepared for:

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Report Date: 09/21/2021
Client Project ID: 21-49925 Central Boulevard
York Project (SDG) No.: 2110784

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/21/2021
Client Project ID: 21-49925 Central Boulevard
York Project (SDG) No.: 21I0784

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 17, 2021 and listed below. The project was identified as your project: **21-49925 Central Boulevard**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21I0784-01	MW-1	Water	09/16/2021	09/17/2021
21I0784-02	MW-2	Water	09/16/2021	09/17/2021
21I0784-03	MW-3	Water	09/16/2021	09/17/2021

General Notes for York Project (SDG) No.: 2110784

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 09/21/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: MW-1

York Sample ID: 2110784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD



Sample Information

Client Sample ID: MW-1

York Sample ID: 2110784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD



Sample Information

Client Sample ID: MW-1

York Sample ID: 2110784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
108-88-3	Toluene	0.48	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/20/2021 09:00	09/20/2021 12:17	PD
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:17	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/20/2021 09:00	09/20/2021 12:17	PD

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: MW-1 **York Sample ID:** 21I0784-01
York Project (SDG) No.: 21I0784 **Client Project ID:** 21-49925 Central Boulevard **Matrix:** Water **Collection Date/Time:** September 16, 2021 3:00 pm **Date Received:** 09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	90.1 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.6 %			79-122						

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 21I0784-02
York Project (SDG) No.: 21I0784 **Client Project ID:** 21-49925 Central Boulevard **Matrix:** Water **Collection Date/Time:** September 16, 2021 3:00 pm **Date Received:** 09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD



Sample Information

Client Sample ID: MW-2

York Sample ID: 2110784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD



Sample Information

Client Sample ID: MW-2

York Sample ID: 2110784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

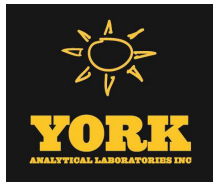
Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 12:45	PD



Sample Information

Client Sample ID: MW-2

York Sample ID: 2110784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropylene, trans-1,4-dichloro-2-butene, Trichloroethylene, Trichlorofluoromethane, Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Sample Information

Client Sample ID: MW-3

York Sample ID: 2110784-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113), and 1,1,2-Trichloroethane.



Sample Information

Client Sample ID: MW-3

York Sample ID: 2110784-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD



Sample Information

Client Sample ID: MW-3

York Sample ID: 2110784-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD



Sample Information

Client Sample ID: MW-3

York Sample ID: 2110784-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2110784

21-49925 Central Boulevard

Water

September 16, 2021 3:00 pm

09/17/2021

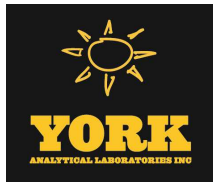
Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
108-88-3	Toluene	0.46	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/20/2021 09:00	09/20/2021 13:14	PD
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/20/2021 09:00	09/20/2021 13:14	PD
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/20/2021 09:00	09/20/2021 13:14	PD
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	89.9 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.4 %	79-122								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21I0784-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21I0784-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21I0784-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

- * Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

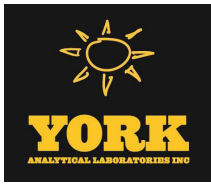
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK Analytical Laboratories, Inc.
 120 Research Drive Stratford, CT 06615
 132-02 89th Ave Queens, NY 11418
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

21 0784

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
 This document serves as your written authorization for YORK to proceed with the analyses requested below.
 Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: J.C. Broderick	Company: JCB	Company: JCB				21-49925		RUSH - Next Day	
Address: 1775 Expressway Dr. North Hempstead, NY 11788	Address:	Address:				YOUR Project Name		RUSH - Two Day	
Phone: (631) 584-5492	Phone:	Phone:				Central Boulevard		RUSH - Three Day	
Contact: Steve Mulla	Contact:	Contact:						RUSH - Four Day	
E-mail: smulla@jcbroderick.com	E-mail:	E-mail:						Standard (5-7 Day)	<input checked="" type="checkbox"/>
						YOUR PO#:			

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: Jose Roldan (print your name above and sign below)

Jose Roldan

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York <input checked="" type="checkbox"/>	<u>Summary Report</u>	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
<u>GW - groundwater</u>	New Jersey	QA Report	CT RCP DQA/DUE	EQulS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQulS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ; Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW-1	GW	9/16/2021	FPA 8260 20	(3) 40 mL VOAS
MW-2	↓	↓	↓	↓
MW-3	↓	↓	↓	↓

Comments: Central Boulevard Elementary School
 60 Central Boulevard Bethpage, NY 11714

Preservation: (check all that apply)
 HCl MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___
 Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	
<i>Steve Mulla / JCB</i>	9/16/2021	<i>KBachyork</i>	9/17/21 1140AM	<i>KBachyork</i>	9/17/21 1630	
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time	Temp. Received at Lab
				<i>79gub</i>	9/17/21 1630	2.1 Degrees C

Page 17 of 17



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EMSL ORDER ID: 782107594
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/27/2021
Current Rev R0
Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492
Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/23/2021 at 20:00. The results are tabulated on the attached data pages for the following client designated project:

Central Boulevard

The reference number for these samples is EMSL Order #782107594. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: **03036**

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



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EMSL ORDER ID: 782107594
 EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
 J.C. Broderick & Associates
 1775 Expressway Drive North,
 Suite 1
 Hauppauge, NY 11788

Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:15
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782107594-0001	MW-1	9/16/2021	10:15 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/27/2021	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory

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EMSL ORDER ID: 782107594
 EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
 J.C. Broderick & Associates
 1775 Expressway Drive North,
 Suite 1
 Hauppauge, NY 11788

Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:15
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Analytical Report

Sample Identification: MW-1 Lab Sample #: 782107594-0001 Date/Time Collected: 9/16/2021 10:15 AM

Test Parameter	Units	Result	Uncertainty	SDWA	Start Count	End Count	Analyst	Status	Count	Method	Comment
				DL	Date/ Time	Date/ Time					
Ra-228 - EPA 904.0	pCi/L	0.120	0.480	0.500	10/18/2021 18:04	10/18/2021 21:24	JW	Not Applicable	EPA 904.0		(1)
Ra-226-EPA 903.0	pCi/L	0.337	0.0851	0.168	10/27/2021 08:46	10/27/2021 10:26	JW	Not Applicable	EPA 903.0		

Sample Specific Comments

- (1)= Analyte was analyzed for, but not detected above the SDWA DL
- (2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/27/2021	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory



EMSL ANALYTICAL, INC.
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EMSL ORDER ID: 782107594
 EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
 J.C. Broderick & Associates
 1775 Expressway Drive North,
 Suite 1
 Hauppauge, NY 11788

Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:15
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Quality Control Report

Sample Identification: MW-1		Lab Sample #: 782107594-0001					Date/Time Collected: 9/16/2021 10:15 AM								
<u>Test Parameter</u>	<u>Tracer/ Carrier 1</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 2</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 3</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>
Ra-228 - EPA 904.0	Barium Carrier	56.6	59.3	105		Yttrium Carrier	28.5	23.2	81		N/A				
Ra-226-EPA 903.0	Barium Carrier	56.6	59.3	105		N/A					N/A				

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.
 T= Tracer recovery was outside of acceptable limits.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u> 10/27/2021	<u>Report Revision</u> R0	<u>Revision Comments</u> Initial Report
---	-------------------------------------	---

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory



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EMSL ORDER ID: 782107595
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/27/2021

Current Rev R0

Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492

Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/23/2021 at 20:00. The results are tabulated on the attached data pages for the following client designated project:

Central Boulevard

The reference number for these samples is EMSL Order #782107595. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager

or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: **03036**

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EMSL ORDER ID: 782107595
 EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
 J.C. Broderick & Associates
 1775 Expressway Drive North,
 Suite 1
 Hauppauge, NY 11788

Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:35
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782107595-0001	MW-2	9/16/2021	10:35 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/27/2021	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
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EMSL ORDER ID: 782107595
 EMSL CUSTOMER ID: JCBR50

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Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:35
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Analytical Report

Sample Identification: MW-2 Lab Sample #: 782107595-0001 Date/Time Collected: 9/16/2021 10:35 AM

Test Parameter	Units	Result	Uncertainty	SDWA	Start Count	End Count	Analyst	Status	Count	Method	Comment
				DL	Date/ Time	Date/ Time					
Ra-228 - EPA 904.0	pCi/L	0.0500	0.510	0.540	10/18/2021 18:04	10/18/2021 21:24	JW	Not Applicable	EPA 904.0	(1)	
Ra-226-EPA 903.0	pCi/L	0.148	0.0592	0.158	10/27/2021 08:46	10/27/2021 10:26	JW	Not Applicable	EPA 903.0	(1)	

Sample Specific Comments

- (1)= Analyte was analyzed for, but not detected above the SDWA DL
- (2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L.
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

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<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/27/2021	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory



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Attention: Steven Muller
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Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 10:35
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Quality Control Report

Sample Identification: MW-2						Lab Sample #: 782107595-0001						Date/Time Collected: 9/16/2021 10:35 AM					
<u>Test Parameter</u>	<u>Tracer/ Carrier 1</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 2</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 3</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>		
Ra-228 - EPA 904.0	Barium Carrier	56.6	61.9	109		Yttrium Carrier	28.5	21.9	77		N/A						
Ra-226-EPA 903.0	Barium Carrier	56.6	61.9	109		N/A					N/A						

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.
 T= Tracer recovery was outside of acceptable limits.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/27/2021	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory



EMSL ANALYTICAL, INC.
200 Route 130 North
Cinnaminson, NJ 08077
Telephone: (800)220-3675 FAX: (856)786-0327
cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782107596
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/27/2021
Current Rev R0
Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492
Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/23/2021 at 20:00. The results are tabulated on the attached data pages for the following client designated project:

Central Boulevard

The reference number for these samples is EMSL Order #782107596. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: **03036**

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



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 EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
 J.C. Broderick & Associates
 1775 Expressway Drive North,
 Suite 1
 Hauppauge, NY 11788

Customer PO: 21-49925
EMSL Project ID:
Project Name: Central Boulevard

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 09/16/2021 11:10
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782107596-0001	MW-3	9/16/2021	11:10 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

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Analyzed: See Results
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Analytical Report

Sample Identification: MW-3 Lab Sample #: 782107596-0001 Date/Time Collected: 9/16/2021 11:10 AM

Test Parameter	Units	Result	Uncertainty	SDWA	Start Count	End Count	Analyst	Status	Count	Method	Comment
				DL	Date/ Time	Date/ Time					
Ra-228 - EPA 904.0	pCi/L	0.630	0.560	0.560	10/18/2021 18:04	10/18/2021 21:24	JW	Not Applicable		EPA 904.0	
Ra-226-EPA 903.0	pCi/L	0.238	0.0758	0.179	10/27/2021 08:46	10/27/2021 10:26	JW	Not Applicable		EPA 903.0	

Sample Specific Comments

- (1)= Analyte was analyzed for, but not detected above the SDWA DL
- (2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L.
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

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Phone: 631-584-5492
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Collected: 09/16/2021 11:10
Received: 09/23/2021 20:00
Analyzed: See Results
Reported: 10/27/2021

Quality Control Report

Sample Identification: MW-3			Lab Sample #: 782107596-0001					Date/Time Collected: 9/16/2021 11:10 AM							
<u>Test Parameter</u>	<u>Tracer/ Carrier 1</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 2</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>	<u>Tracer/ Carrier 3</u>	<u>Spike</u>	<u>Result</u>	<u>% Rec.</u>	<u>Q</u>
Ra-228 - EPA 904.0	Barium Carrier	56.6	58	102		Yttrium Carrier	28.5	22.4	79		N/A				
Ra-226-EPA 903.0	Barium Carrier	56.6	58	102		N/A					N/A				

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.

T= Tracer recovery was outside of acceptable limits.

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Radiochemical Analysis Chain of Custody

EMSL Order Number (Lab Use Only):

782107 -

Contact Name: Steven Muller	Bill To Company: JC Broderick and Associates, Inc.	Sampled By (Sign):
Company Name: JC Broderick & Associates, Inc.	Attention To:	Sampled By (Name): Jeffrey Nannini
Address: 1775 Express Drive North	Address:	Total # of Samples: 3
City: Hauppauge State: NY Zip Code: 11788	City: State: Zip Code:	Date of Shipping: 9-21-2021
Telephone #: 631-584-5492 Fax: 631-584-3395	Telephone #: Fax:	Sample State/ Zip Code: <small>New York / 11714</small>
Email: smuller@jcbroderick.com	Project Name: Central Boulevard	Purchase Order: 21-49925

Turn Around Time: 4 weeks (Standard) Client Specific: 48 Hours 96 Hours 1 week 2 weeks 3 Weeks

Field Use - All Information Required!					Analytes														
Client Sample ID	Lab ID (For Lab Use only)	Matrix	Size (mL, g)	Date/Time	Gross Alpha		Gross Beta	Ra-228	Ra-226	Total Uranium	Gamma Emitters	Actinides (U, Th, Pu, Am)	Sr-89, Sr-90	I-131	Radon	Tritium	Tc-99	Note	
					NJ 48 Hrs	EPA 900													
MW-1	594	GW	1,000 ml	9-16-2021/ 10:15 AM				X	X										
MW-2		GW	1,000 ml	9-16-2021/ 10:35 AM				X	X										
MW-3		GW	1,000 ml	9-16-2021/ 11:10 AM				X	X										

Report Requirement*: Level One Level Two Level Three

Relinquished by:	Date/ Time	Received by:	Date/ Time	Note
	9-21-2021			Central Boulevard ES
		<i>Jm COURIER</i>	9/23/21 8 pm	60 Central Boulevard, Bethpage, NY 11714

*Level One = Results only; Level Two = Results and QC; Level Three = Results, QC, Logs, Worksheets, Printout/Spectrum and Calibrations

RECEIVED
 EMSL
 DIMMATHINSON, NJ
 21 SEP 23 PM 9:13