

# **GROUNDWATER SAMPLING REPORT**

**“BETHPAGE HIGH SCHOOL”  
10 CHERRY AVENUE  
BETHPAGE, NEW YORK 11714**

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

**JCB PROJECT #: 20-46952  
SEPTEMBER 2020**

**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 Bethpage High School.

### **Section No. 2.0: Site Description and Location**

The subject site is located at 10 Cherry Avenue, Bethpage, New York 11714. The subject site is located on the south side of Cherry Avenue, between Stewart Avenue to the west and Broadway to the east. According to the United States Geological Survey (USGS) *Huntington, New York 1992 7.5 Minute Series* Topographical Map, the subject site is situated at an approximate elevation of 121 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 August 28, 2020, 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	Casing Elevation (ft)	Depth to Product (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-5	118.88	No Product	52.82	66.06
MW-6	119.04	No Product	52.34	66.70
MW-7	118.72	No Product	52.40	66.32
<b>Notes:</b> ft = Feet				

#### **Section No. 3.2: Groundwater Sampling**

On August 28, 2020, JCB collected three (3) groundwater samples from the replacement groundwater monitoring wells (MW-5, MW-6, and MW-7). 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-5	DTW (ft)	TD (ft)	Water Column (ft)		
	52.82	62.40	9.58		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
8:48	17.03	0.370	2.10	6.55	192.0
8:52	17.33	0.393	2.05	6.54	189.1
8:55	17.35	0.415	2.04	6.53	188.3
9:00	Samples Collected				
MW-6	DTW (ft)	TD (ft)	Water Column (ft)		
	52.34	62.70	10.36		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
8:05	23.73	0.129	1.50	6.57	179.5
8:08	23.78	0.130	1.47	6.55	177.9
8:11	23.84	0.129	1.46	6.53	176.2
8:15	Samples Collected				
MW-7	DTW (ft)	TD (ft)	Water Column (ft)		
	52.40	62.40	10.0		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
7:17	18.75	0.491	2.26	6.15	236.2
7:20	18.75	0.491	2.23	6.16	234.9
7:23	18.81	0.490	2.18	6.19	233.0
7:30	Samples Collected				
<b>Notes:</b> 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:

<b>Table No. 3: Summary of Groundwater Samples Submitted for Laboratory Analysis</b>			
<b>Sample ID#</b>	<b>Date Sampled</b>	<b>Description of Sample</b>	<b>Analysis Method</b>
MW-5	8-28-2020	Monitoring Well No. 5	EPA 8260 + Freon EPA 903.0 EPA 904.0
MW-6	8-28-2020	Monitoring Well No. 6	EPA 8260 + Freon EPA 903.0 EPA 904.0
MW-7	8-28-2020	Monitoring Well No. 7	EPA 8260 + Freon EPA 903.0 EPA 904.0
<b>Notes:</b> 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 also 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 Samples Submitted for VOC Analysis								
Sample ID York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	MW-5 2010153-01 8/28/2020 Water		MW-6 2010153-02 8/28/2020 Water		MW-7 2010153-03 8/28/2020 Water	
Compound	CAS Number		Result	Q	Result	Q	Result	Q
<b>Volatile Organics, 8260 - Comprehensive</b>		ug/L	ug/L		ug/L		ug/L	
<b>Dilution Factor</b>			1		1		1	
1,1-Dichloroethane	75-34-3	5	0.200	U	0.340	J	0.200	U
Acetone	67-64-1	50	1	JB	1	U	1	U
Toluene	108-88-3	5	0.370	J	0.260	J	0.410	J
<b>NOTES:</b>								
Any Regulatory Exceedences are color coded by Regulation								
<b>Q is the Qualifier Column with definitions as follows:</b>								
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated								
U=analyte not detected at or above the level indicated								
B=analyte found in the analysis batch blank								

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

The laboratory analysis results from the groundwater samples submitted from MW-5, MW-6, and MW-7 did indicate detectable concentrations of 1,1-dichloroethane, acetone, and toluene; however, the levels reported were below the above referenced guidance values for groundwater.

The following table summarizes the Radium analytical results in groundwater:

<b>Table No. 5: Summary of Groundwater Samples Submitted for Radium Analysis</b>				
<b>Client Sample ID</b>	<b>Allowable Standards</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-7</b>
<b>EPA 903.0 &amp; EPA 904</b>	<b>pCi/L</b>	<b>8/28/2020</b>	<b>8/28/2020</b>	<b>8/28/2020</b>
Radium 226 (pCi/g)	3.0	0.98	0.31	1.16
Radium 228 (pCi/g)	5.0	1.80	0.51	1.97
<b>Notes:</b> pCi/L = picocuries per liter				

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

The laboratory analysis results from the groundwater samples submitted from MW-5, MW-6, and MW-7 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:

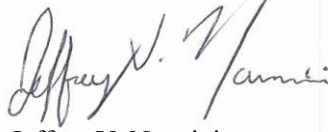
The laboratory analysis results from the groundwater samples submitted did not indicate elevated concentrations of any VOCs or Freon above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

The laboratory analysis results from the groundwater samples submitted did indicate elevated concentrations of Radium 226 and Radium 228 above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

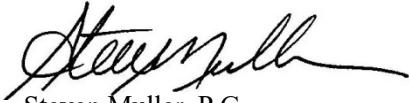
Based upon the detected concentrations of VOCs and Radium in the collected groundwater samples it is recommended that periodic groundwater and volatile vapor intrusion (VVI) sampling be continued to monitor site conditions. VVI sampling is currently scheduled for March 2021.

Sincerely,

**J.C. Broderick & Associates, Inc.**



Jeffrey V. Nannini  
Environmental Scientist



Steven Muller, P.G.  
Director – Subsurface Division

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# **Appendix A**

## **Figures**





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Notes:

Bethpage High School  
10 Cherry Avenue  
Bethpage, NY 11714

Drawing Title

Figure No. 1

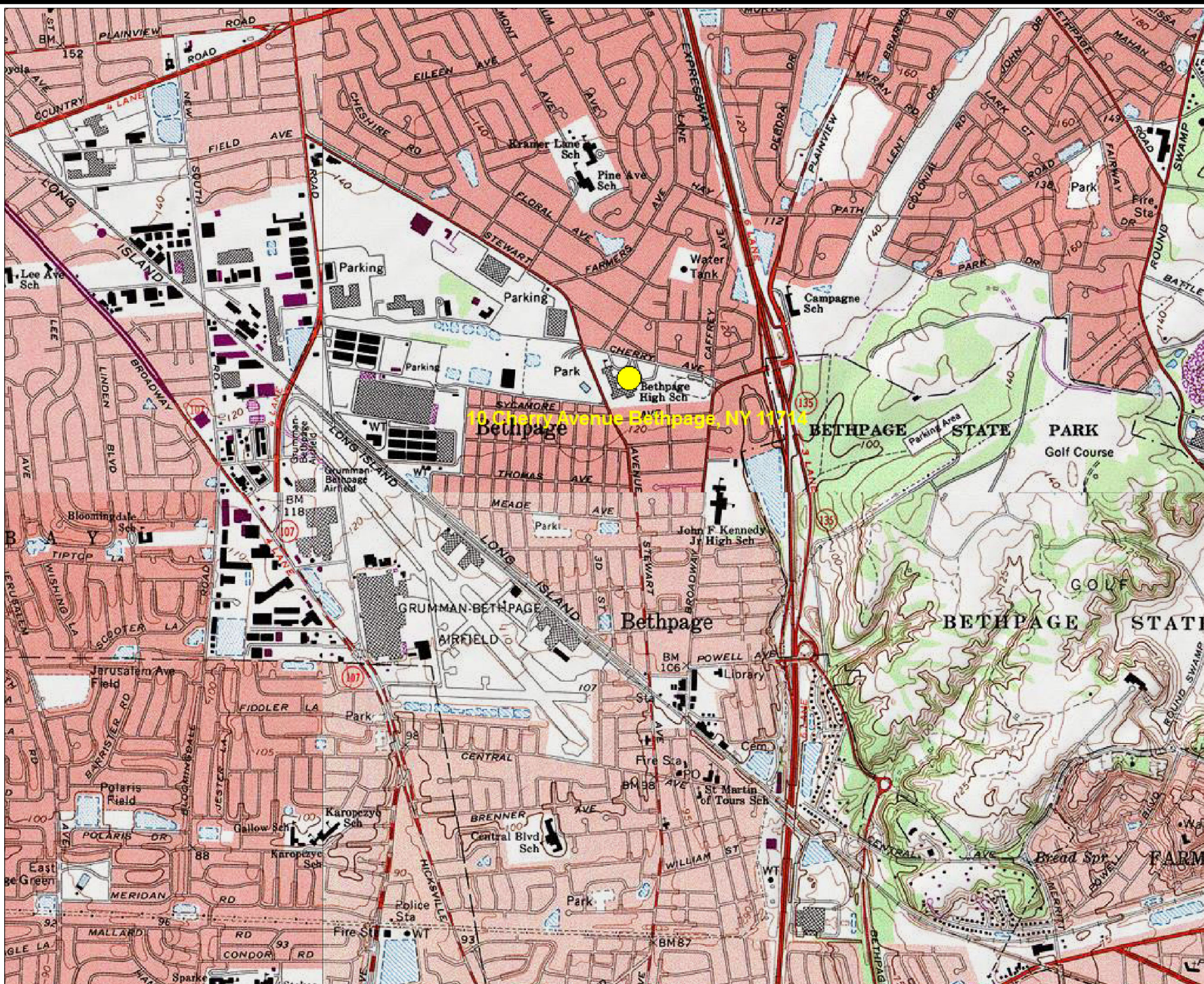
Site Location Map

Scale As Noted Project No. 20-46952 Date 08-28-2020

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!® ©2003 National Geographic (www.nationalgeographic.com/topo)





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Notes:

Bethpage High School  
10 Cherry Avenue  
Bethpage, NY 11714

Drawing Title

Figure No. 2

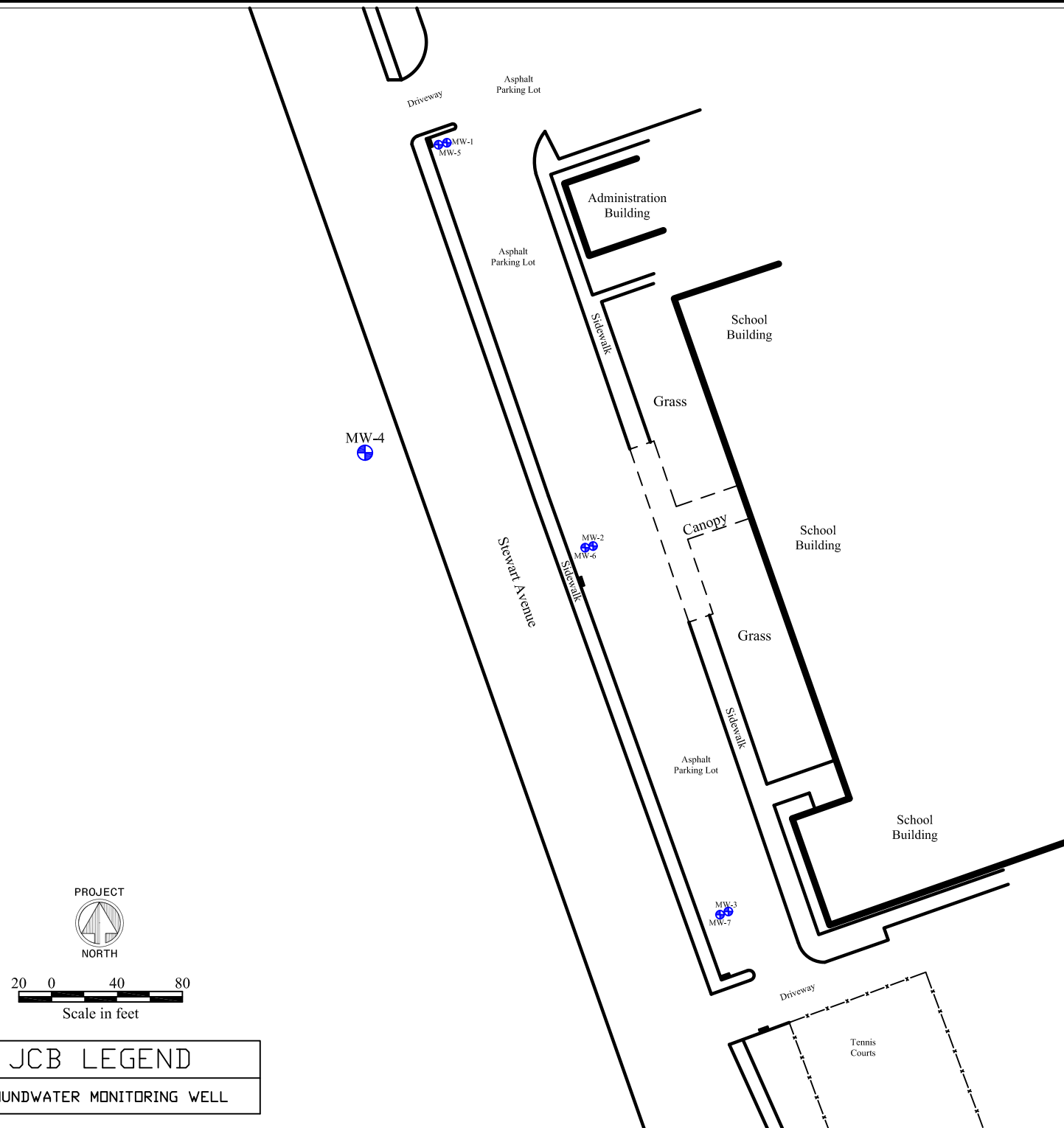
Groundwater  
Monitoring Well  
Locations  
Map

Scale	Project No.	Date
As Noted	20-46952	08-28-2020

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

Drawing No.

2



20 0 40 80  
Scale in feet

JCB LEGEND

⊕ GROUNDWATER MONITORING WELL



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Notes:

Bethpage High School  
10 Cherry Avenue  
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Drawing Title

Figure No. 3

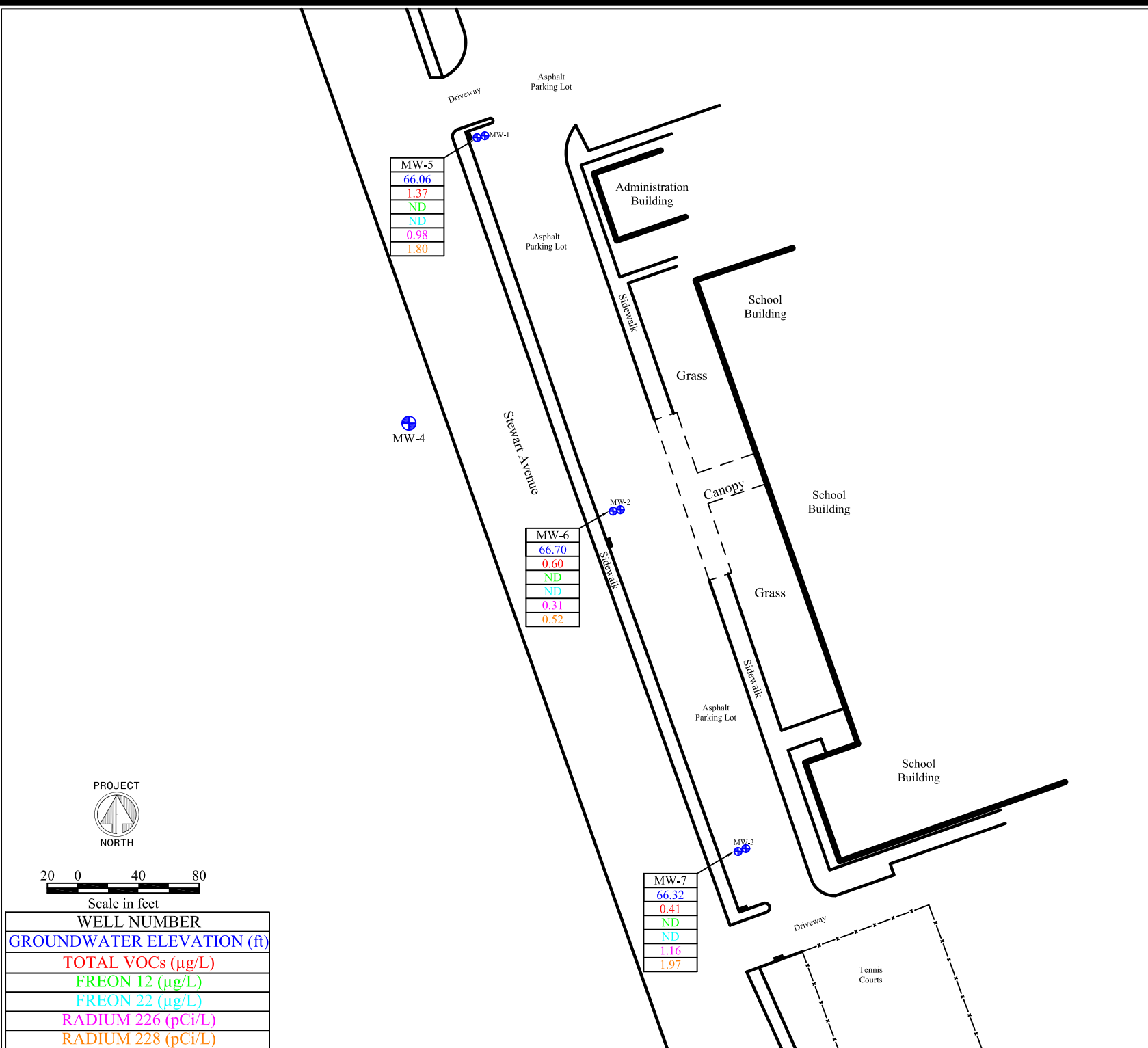
Analytical Results  
Map

Scale As Noted Project No. 20-46952 Date 08-28-2020

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

Drawing No.

3



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## **Appendix B**

### **Photo Log**

**Groundwater Monitoring Well Locations**  
**MW-1** **MW-5**



**Field Photograph Log**

**Groundwater Sampling Report**

**Bethpage High School**  
**10 Cherry Avenue**  
**Bethpage, New York 11714**

**Photo No. 01**

**JCB#: 20-46952**

**Groundwater Monitoring Well Locations**  
**MW-2** **MW-6**



**Field Photograph Log**

**Groundwater Sampling Report**

**Bethpage High School**  
**10 Cherry Avenue**  
**Bethpage, New York 11714**

**Photo No. 02**

**JCB#: 20-46952**



**Groundwater Monitoring Well Locations**  
**MW-3** **MW-7**



**Field Photograph Log**

**Groundwater Sampling Report**

**Bethpage High School**  
**10 Cherry Avenue**  
**Bethpage, New York 11714**

**Photo No. 03**

**JCB#: 20-46952**

## Groundwater Sampling Equipment



## Field Photograph Log

### Groundwater Sampling Report

Bethpage High School  
10 Cherry Avenue  
Bethpage, New York 11714

Photo No. 04

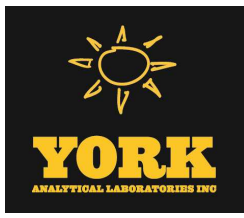
JCB#: 20-46952



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# **Appendix C**

## **Laboratory Analysis Report**



# Technical Report

prepared for:

**J.C. Broderick**  
1775 North Express Drive  
Hauppauge NY, 11788  
**Attention: Jeff Nannini**

Report Date: 09/09/2020  
**Client Project ID: 20-46952 BETHPAGE HS**  
York Project (SDG) No.: 20I0153

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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FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 09/09/2020  
Client Project ID: 20-46952 BETHPAGE HS  
York Project (SDG) No.: 20I0153

**J.C. Broderick**  
1775 North Express Drive  
Hauppauge NY, 11788  
Attention: Jeff Nannini

---

## 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 02, 2020 with a temperature of 1.3 C. The project was identified as your project: **20-46952 BETHPAGE HS**.

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>
20I0153-01	MW-5	Water	08/28/2020	09/02/2020
20I0153-02	MW-6	Water	08/28/2020	09/02/2020
20I0153-03	MW-7	Water	08/28/2020	09/02/2020

## **General Notes for York Project (SDG) No.: 20I0153**

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:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 09/09/2020





## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:** 20I0153-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0153

20-46952 BETHPAGE HS

Water

August 28, 2020 12:00 am

09/02/2020

### 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,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
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,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP



## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:** 20I0153-01

**York Project (SDG) No.**  
20I0153

**Client Project ID**  
20-46952 BETHPAGE HS

**Matrix**  
Water

**Collection Date/Time**  
August 28, 2020 12:00 am

**Date Received**  
09/02/2020

### 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
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
67-64-1	Acetone	1.0	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP



## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:** 20I0153-01

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 02:56	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 02:56	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 02:56	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
108-88-3	<b>Toluene</b>	<b>0.37</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP



## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:** 20I0153-01

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
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,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 02:56	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	100 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.7 %	79-122								

## Sample Information

**Client Sample ID:** MW-6

**York Sample ID:** 20I0153-02

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
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,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-34-3	<b>1,1-Dichloroethane</b>	<b>0.34</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP





## Sample Information

**Client Sample ID:** MW-6

**York Sample ID:** 20I0153-02

**York Project (SDG) No.**  
20I0153

**Client Project ID**  
20-46952 BETHPAGE HS

**Matrix**  
Water

**Collection Date/Time**  
August 28, 2020 12:00 am

**Date Received**  
09/02/2020

### 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
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP



## Sample Information

**Client Sample ID:** MW-6

**York Sample ID:** 20I0153-02

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP



## Sample Information

**Client Sample ID:** MW-6

**York Sample ID:** 20I0153-02

**York Project (SDG) No.**  
20I0153

**Client Project ID**  
20-46952 BETHPAGE HS

**Matrix**  
Water

**Collection Date/Time**  
August 28, 2020 12:00 am

**Date Received**  
09/02/2020

### 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
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 03:22	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 03:22	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:22	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
108-88-3	<b>Toluene</b>	<b>0.26</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
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,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:22	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	69-130								



## Sample Information

**Client Sample ID:** MW-6

**York Sample ID:** 20I0153-02

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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
2037-26-5	Surrogate: SURR: Toluene-d8	97.9 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.1 %			79-122						

## Sample Information

**Client Sample ID:** MW-7

**York Sample ID:** 20I0153-03

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
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,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	09/03/2020 06:54	09/05/2020 03:47	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	09/03/2020 06:54	09/05/2020 03:47	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	09/03/2020 06:54	09/05/2020 03:47	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP



## Sample Information

**Client Sample ID:** MW-7

**York Sample ID:** 20I0153-03

York Project (SDG) No.  
20I0153

Client Project ID  
20-46952 BETHPAGE HS

Matrix  
Water

Collection Date/Time  
August 28, 2020 12:00 am

Date Received  
09/02/2020

### 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
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP



## Sample Information

**Client Sample ID:** MW-7

**York Sample ID:** 20I0153-03

**York Project (SDG) No.**  
20I0153

**Client Project ID**  
20-46952 BETHPAGE HS

**Matrix**  
Water

**Collection Date/Time**  
August 28, 2020 12:00 am

**Date Received**  
09/02/2020

### 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
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 03:47	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	09/03/2020 06:54	09/05/2020 03:47	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP



## Sample Information

**Client Sample ID:** MW-7

**York Sample ID:** 20I0153-03

**York Project (SDG) No.**  
20I0153

**Client Project ID**  
20-46952 BETHPAGE HS

**Matrix**  
Water

**Collection Date/Time**  
August 28, 2020 12:00 am

**Date Received**  
09/02/2020

### 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
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	09/03/2020 06:54	09/05/2020 03:47	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
108-88-3	<b>Toluene</b>	<b>0.41</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
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,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	09/03/2020 06:54	09/05/2020 03:47	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	99.8 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.5 %	79-122								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20I0153-01	MW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20I0153-02	MW-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20I0153-03	MW-7	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Sample and Data Qualifiers Relating to This Work Order

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).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

## 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.

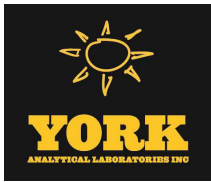
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.

---



www.yorklab.com

## Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: JCB	Company: JCB	Company: JCB						RUSH - Next Day	
Address: 1715 Expressway Dr N Haverhauge NY 11788	Address:	Address:				20-46952		RUSH - Two Day	
Phone: (631) 584 5492	Phone:	Phone:				YOUR Project Name		RUSH - Three Day	
Contact: Jeff Nannini	Contact:	Contact:				BETHPAGE MS		RUSH - Four Day	
E-mail: jnannini@crbordenllc.com	E-mail:	E-mail:						Standard (5-7 Day)	✓
						YOUR PO#:			

Page 18 of 18



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

EMSL ORDER ID: 782006559  
EMSL CUSTOMER ID: JCBR50

**Reported Date:** 9/30/2020

**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](mailto:smuller@jcbroderick.com)

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/09/2020 at 09:50. The results are tabulated on the attached data pages for the following client designated project:

**Bethpage HS / MW-5**

The reference number for these samples is EMSL Order #782006559. 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.

**EMSL ANALYTICAL, INC.**

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EMSL ORDER ID: 782006559  
EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-5

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 07:30  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### ***Laboratory Report- Sample Summary***

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782006559-0001	MW-5	8/28/2020	7:30 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><b>Report Date</b></u>	<u><b>Report Revision</b></u>	<u><b>Revision Comments</b></u>
9/30/2020	R0	Initial Report

**Dominic Gehret, Radiochemistry Laboratory Manager**  
or other approved signatory

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EMSL ORDER ID: 782006559  
EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-5

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 07:30  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

## Analytical Report

**Sample Identification: MW-5**      **Lab Sample #: 782006559-0001**      **Date/Time Collected: 8/28/2020 07:30 AM**

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	1.80	0.940	0.900	09/23/2020 14:08	09/23/2020 16:08	JW	Not Applicable	EPA 904.0	
Ra-226-EPA 903.0	pCi/L	0.98	0.149	0.166	09/30/2020 09:15	09/30/2020 10:55	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% confidence level ( $1.96\sigma$  where  $\sigma$  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.

**Report Date**  
9/30/2020

**Report Revision**  
R0

**Revision Comments**  
Initial Report

**Dominic Gehret, Radiochemistry Laboratory Manager**  
or other approved signatory





EMSL ANALYTICAL, INC.  
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EMSL ORDER ID: 782006559  
 EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-5

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 07:30  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### Quality Control Report

Sample Identification: MW-5				Lab Sample #: 782006559-0001				Date/Time Collected: 8/28/2020 07:30 AM							
Test Parameter	Tracer/ Carrier 1	Spike	Result	% Rec.	Q	Tracer/ Carrier 2	Spike	Result	% Rec.	Q	Tracer/ Carrier 3	Spike	Result	% Rec.	Q
Ra-228 - EPA 904.0	Barium Carrier	55.3	57.2	103		Yttrium Carrier	29.5	23.6	80		N/A				
Ra-226 - EPA 903.0	Barium Carrier	55.3	57.2	103		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.

**Report Date**  
 9/30/2020

**Report Revision**  
 R0

**Revision Comments**  
 Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager  
 or other approved signatory



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EMSL ORDER ID: 782006560  
EMSL CUSTOMER ID: JCBR50

**Reported Date:** 9/30/2020

**Current Rev** R0

**Final Comment** 0

**Attention:** Steven Muller  
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Hauppauge, NY 11788

**Phone:** 631-584-5492

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The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/09/2020 at 09:50. The results are tabulated on the attached data pages for the following client designated project:

**Bethpage HS / MW-6**

The reference number for these samples is EMSL Order #782006560. 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: 782006560  
EMSL CUSTOMER ID: JCBR50

**Attention:** Steven Muller  
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**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-6

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 08:15  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### ***Laboratory Report- Sample Summary***

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782006560-0001	MW-6	8/28/2020	8:15 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.

<b><u>Report Date</u></b>	<b><u>Report Revision</u></b>	<b><u>Revision Comments</u></b>
9/30/2020	R0	Initial Report

**Dominic Gehret, Radiochemistry Laboratory Manager**  
or other approved signatory

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EMSL ORDER ID: 782006560  
EMSL CUSTOMER ID: JCBR50

**Attention:** Steven Muller  
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**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-6

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**Collected:** 08/28/2020 08:15  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

## Analytical Report

**Sample Identification: MW-6**      **Lab Sample #: 782006560-0001**      **Date/Time Collected: 8/28/2020 08:15 AM**

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	0.510	0.520	0.520	09/23/2020 14:09	09/23/2020 16:09	JW	Not Applicable	EPA 904.0	(1)
Ra-226-EPA 903.0	pCi/L	0.308	0.0874	0.147	09/30/2020 09:15	09/30/2020 10:55	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% confidence level ( $1.96\sigma$  where  $\sigma$  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.

**Report Date**  
9/30/2020

**Report Revision**  
R0

**Revision Comments**  
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](mailto:cinnaminsonradonlab@emsl.com) | <http://www.EMSL.com>

EMSL ORDER ID: 782006560  
EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-6

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 08:15  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### Quality Control Report

Sample Identification: MW-6					Lab Sample #: 782006560-0001					Date/Time Collected: 8/28/2020 08:15 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	55.3	52.7	95		Yttrium Carrier	29.5	25.5	86		N/A				
Ra-226 - EPA 903.0	Barium Carrier	55.3	52.7	95		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.

Report Date  
9/30/2020

Report Revision  
R0

Revision Comments  
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager  
or other approved signatory



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EMSL ORDER ID: 782006561  
EMSL CUSTOMER ID: JCBR50

**Reported Date:** 9/30/2020

**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](mailto:smuller@jcbroderick.com)

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/09/2020 at 09:50. The results are tabulated on the attached data pages for the following client designated project:

**Bethpage HS / MW-7**

The reference number for these samples is EMSL Order #782006561. 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.

**EMSL ANALYTICAL, INC.**

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EMSL ORDER ID: 782006561  
EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-7

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 09:00  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### ***Laboratory Report- Sample Summary***

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782006561-0001	MW-7	8/28/2020	9:00 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><b>Report Date</b></u>	<u><b>Report Revision</b></u>	<u><b>Revision Comments</b></u>
9/30/2020	R0	Initial Report

**Dominic Gehret, Radiochemistry Laboratory Manager**  
or other approved signatory

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EMSL ORDER ID: 782006561  
 EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-7

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 09:00  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

## Analytical Report

**Sample Identification: MW-7**      **Lab Sample #: 782006561-0001**      **Date/Time Collected: 8/28/2020 09:00 AM**

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	1.97	0.640	0.550	09/23/2020 14:09	09/23/2020 16:09	JW	Not Applicable	EPA 904.0	
Ra-226-EPA 903.0	pCi/L	1.16	0.167	0.164	09/30/2020 09:15	09/30/2020 10:55	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% confidence level ( $1.96\sigma$  where  $\sigma$  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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**Report Date**  
 9/30/2020

**Report Revision**  
 R0

**Revision Comments**  
 Initial Report

**Dominic Gehret, Radiochemistry Laboratory Manager**  
 or other approved signatory



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EMSL ORDER ID: 782006561  
EMSL CUSTOMER ID: JCBR50

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

**Customer PO:** 20-46952  
**EMSL Project ID:**  
**Project Name:** Bethpage HS / MW-7

**Phone:** 631-584-5492  
**Email:** [smuller@jcbroderick.com](mailto:smuller@jcbroderick.com)

**Collected:** 08/28/2020 09:00  
**Received:** 09/09/2020 09:50  
**Analyzed:** See Results  
**Reported:** 9/30/2020

### Quality Control Report

Sample Identification: MW-7					Lab Sample #: 782006561-0001					Date/Time Collected: 8/28/2020 09:00 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	55.3	54.2	98		Yttrium Carrier	29.5	25.9	88		N/A				
Ra-226 - EPA 903.0	Barium Carrier	55.3	54.2	98		N/A					N/A				

#### % Recovery Criteria

30% - 125%

#### Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.

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Dominic Gehret, Radiochemistry Laboratory Manager  
or other approved signatory





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Radiochemical Analysis Chain of Custody

EMSL Order Number (Lab Use Only):

78200-

Contact Name: Steven Muller	Bill To Company: JC Broderick and Associates, Inc.	Sampled By (Sign): <i>N. Salerno</i>
Company Name: JC Broderick & Associates, Inc.	Attention To:	Sampled By (Name): Nicholas Salerno
Address: 1775 Express Drive North	Address:	Total # of Samples: 3
City: Hauppauge State: NY Zip Code: 11788	City: State: Zip Code:	Date of Shipping: 09-08-2020
Telephone #: 631-584-5492 Fax: 631-584-3395	Telephone #: Fax:	Sample State/ Zip Code: New York / 11714
Email: smuller@jcbroderick.com	Project Name: Bethpage HS	Purchase Order: 20-46952

## 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-5	6539	GW	2,000 ml	8-28-2020 / 7:30 AM				X	X									
MW-6	6560	GW	2,000 ml	8-28-2020 / 8:15 AM				X	X									
MW-7	6561	GW	2,000 ml	8-28-2020 / 9:00 AM				X	X									

Report Requirement\*: ☐ Level One ☒ Level Two ☐ Level Three

Relinquished by:	Date/ Time	Received by:	Date/ Time	Note
Nicholas Salerno	09-08-2020	<i>Ek EFX</i>	09/09/20 9:50 AM	Bethpage High School 10 Cherry Avenue, Bethpage, NY 11714

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

TR# 3966 1714 3080