J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing

1775 Expressway Drive North
Hauppauge, NY 11788
631.584.5492
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January 4, 2016

Mr. Terrence Clark
Superintendent of Schools
Bethpage Union Free School District
Administration Building
10 Cherry Avenue
Bethpage, New York 11714

Re: Sampling of Groundwater Monitoring Wells at

Site: Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714
Site Visit: November 4, 2015

JCB#: 15-32442

Dear Mr. Clark:

J.C. Broderick & Associates, Inc. (JCB) was retained to perform sampling of groundwater monitoring wells at the above referenced school building. The site visit was performed by experienced JCB Consultants on the above referenced date and consisted of the following:

- On November 4, 2015, the three (3) on-site monitoring wells were checked for the presence of Light Non-Aqueous Phase Liquid (LNAPL) utilizing a Solinst® Model 122 Product/Water Interface Meter and depth to the groundwater table was recorded to the nearest 0.01 ft. A Groundwater Gradient Map was generated from this data and is attached as Appendix-A, Figure-2. The data obtained indicates a groundwater flow direction to the south along Stewart Avenue.

The following table summarizes the survey and groundwater data:

Table No. 2:
Depth to Groundwater Gauged with Interface Meter

Well Number	Depth to Product (ft)	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-1	No Product	118.83	53.37	65.46
MW-2	No Product	119.18	54.13	65.05
MW-3	No Product	119.18	54.48	64.70

Notes:
ft = Feet

Subsequent to the gauging, JCB collected a groundwater sample from each groundwater monitoring well. Prior to sampling, the casing volume of the monitoring well was calculated and a minimum of three (3) casing volumes of water was purged utilizing a disposable polyethylene bailer.

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	11-04-15	Monitoring Well No. 1	EPA 524.2 List
MW-2	11-04-15	Monitoring Well No. 2	EPA 524.2 List
MW-3	11-04-15	Monitoring Well No. 3	EPA 524.2 List

Notes:
EPA = Environmental Protection Agency

Section No. 4.0: 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) utilizing Environmental Protection Agency (EPA) Method 524.2 List.

York Analytical Laboratories, Inc. (York) provided laboratory analytical services. Copies of York's NYSDOH certifications are available upon request.

The laboratory analytical results for the groundwater sample was 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 Groundwater Analytical Results:

Table No. 1:
Summary of Groundwater Samples Analysis Results

Client Sample ID	Allowable Standards	MW-1	MW-2	MW-3
EPA 524.2 Volatiles List	**µg/L**	**----**	**----**	**----**
Benzene	0.7	ND	ND	ND
Bromobenzene	5	ND	ND	ND
Bromochloromethane	5	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND
Bromoform	50	ND	ND	ND
Bromomethane	5	ND	ND	ND

January 4, 2016
Mr. Terrence Clark of Bethpage Union Free School District
Sampling of Groundwater Monitoring Wells at
Bethpage High School
10 Cherry Avenue, Bethpage, New York 11714
Site Visit: November 4, 2015
JCB#: 15-32442

Table No. 1: Summary of Groundwater Samples Analysis Results				
Client Sample ID	**Allowable Standards**	**MW-1**	**MW-2**	**MW-3**
tert-Butyl-Benzene	5	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND
sec-Butyl-Benzene	5	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND
Chlorobenzene	5	ND	ND	ND
Chloroethane	5	ND	ND	ND
Chloroform	7	ND	ND	ND
Chloromethane (Methyl Chloride)	5	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND
Dibromomethane	5	ND	ND	ND
1,2- Dichlorobenzene	3	ND	ND	ND
1,4- Dichlorobenzene	3	ND	ND	ND
1,3- Dichlorobenzene	3	ND	ND	ND
Dichlorodifluoromethane (Freon® 12)	5	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND
cis-1,3-Dichloropropylene	0.4	ND	ND	ND
1,1-Dichloropropylene	5	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND
Ethylbenzene	5	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND
Methyl-tert-butyl ether (MtBE)	10	ND	ND	ND
Methylene Chloride	5	ND	ND	ND
Naphthalene	10	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND
Styrene	5	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND

Table No. 1:
Summary of Groundwater Samples Analysis Results

Client Sample ID	Allowable Standards	MW-1	MW-2	MW-3
Toluene	5	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND
Trichloroethylene	5	ND	ND	ND
Trichlorofluoromethane (Freon® 11)	5	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND
o-Xylene	5	ND	ND	ND
p- & m- Xylenes	5	ND	ND	ND
Chlorodifluoromethane (Freon® 22)	N/A	ND	24	0.9

Notes:
µg/L = parts per billion
N/A = Guidance Value Not Established by the New York State Department of Environmental Conservation at the time of this report
ND = Not Detected

The laboratory analysis results from the groundwater sample submitted from MW-1 **did not** reveal any elevated concentrations of VOCs, Freon® 11, Freon® 12 or Freon® 22 exceeding the above referenced guidance values.

The laboratory analysis results from the groundwater samples submitted from MW-2 and MW-3 **did not** reveal any elevated concentrations of VOCs, Freon® 11 or Freon® 12 exceeding the above referenced guidance values.

The laboratory analysis results from the groundwater samples submitted from MW-2 and MW-3 **did** reveal elevated concentrations of Freon® 22; however, no guidance value has been established by the New York State Department of Environmental Conservation (NYSDEC) regarding this compound.

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. All down-hole equipment which did not come into contact with sample material was pressure rinsed with potable water prior to the start of each boring. 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 between boring locations and 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 from MW-2 and MW-3 **did** reveal concentrations of Freon® 22; however, no guidance value has been established by the New York State Department of Environmental Conservation (NYSDEC) regarding this compound.

Groundwater elevation data obtained during the investigation indicates a groundwater flow direction to the south along Stewart Avenue. According to background research performed, an easterly component to the groundwater flow direction is usually present in this area of Long Island. It is likely that due to the groundwater remediation systems currently in operation for the adjoining property, the groundwater flow direction may be influenced.

Based on the findings of this sampling event, it appears the groundwater monitoring wells installed on the school property have revealed evidence of off-site contamination influencing the groundwater quality beneath the school property.

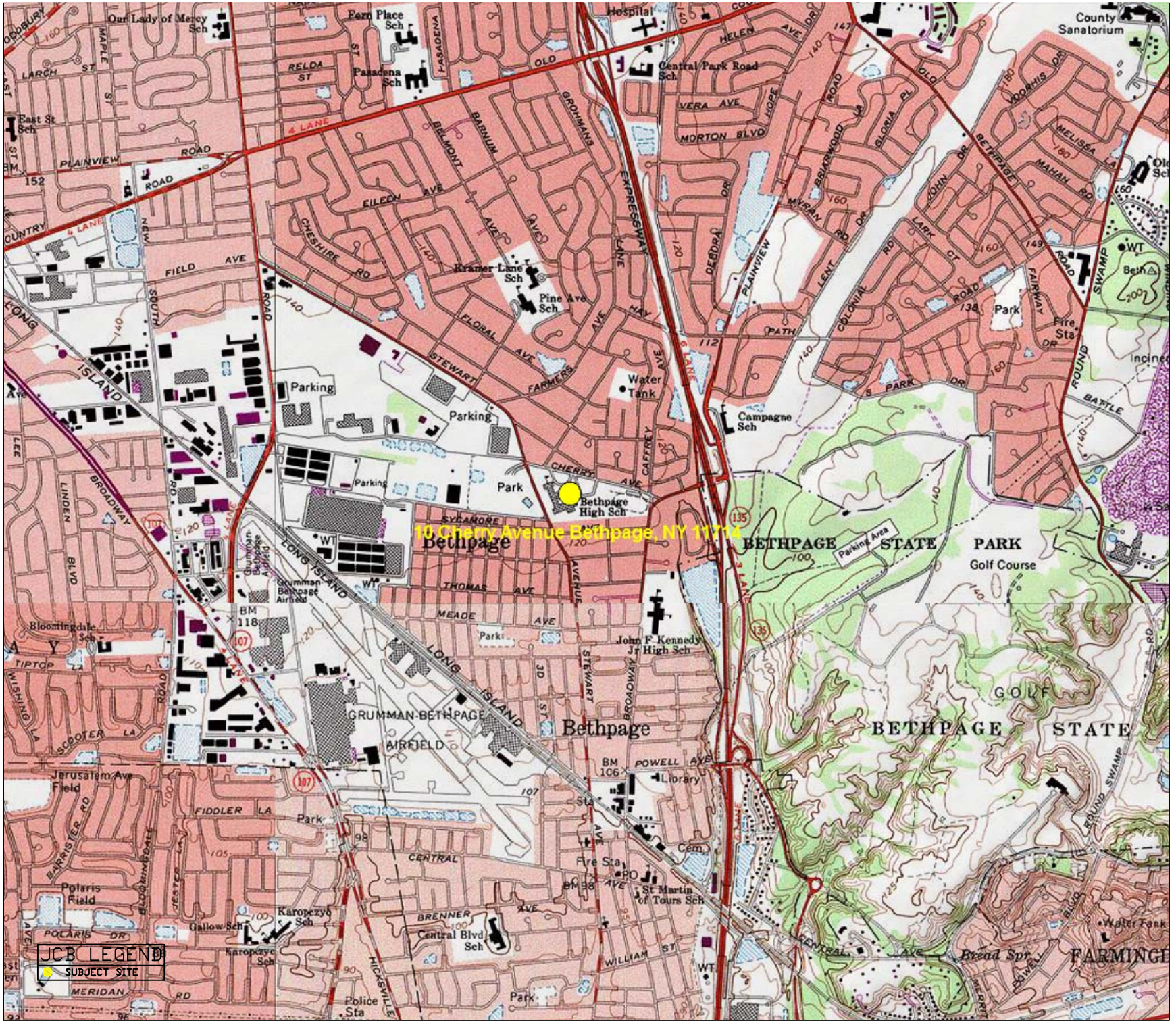
JCB recommends collecting a conformational sample from groundwater monitoring wells MW-2 and MW-3 and collect indoor Volatile Vapor Intrusion sampling of the administration building similar to last performed in August, 2014.

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

Jeffrey V. Nannini
Environmental Scientist

Steven Muller, PG
Project Manager

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	Project No.	Date
As Noted	15-32442	11-04-15

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

Drawing No.

1

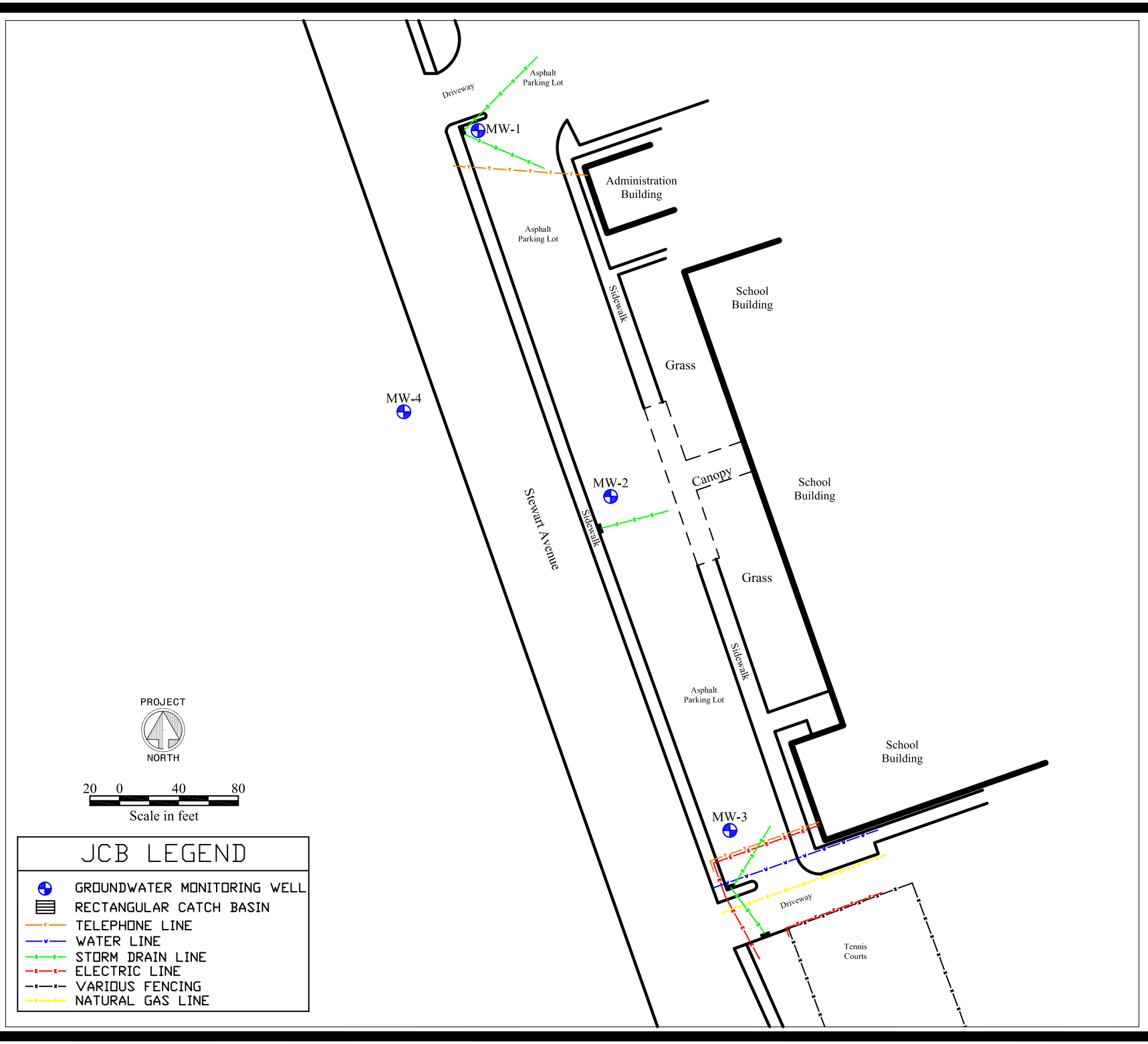

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Figure No. 2

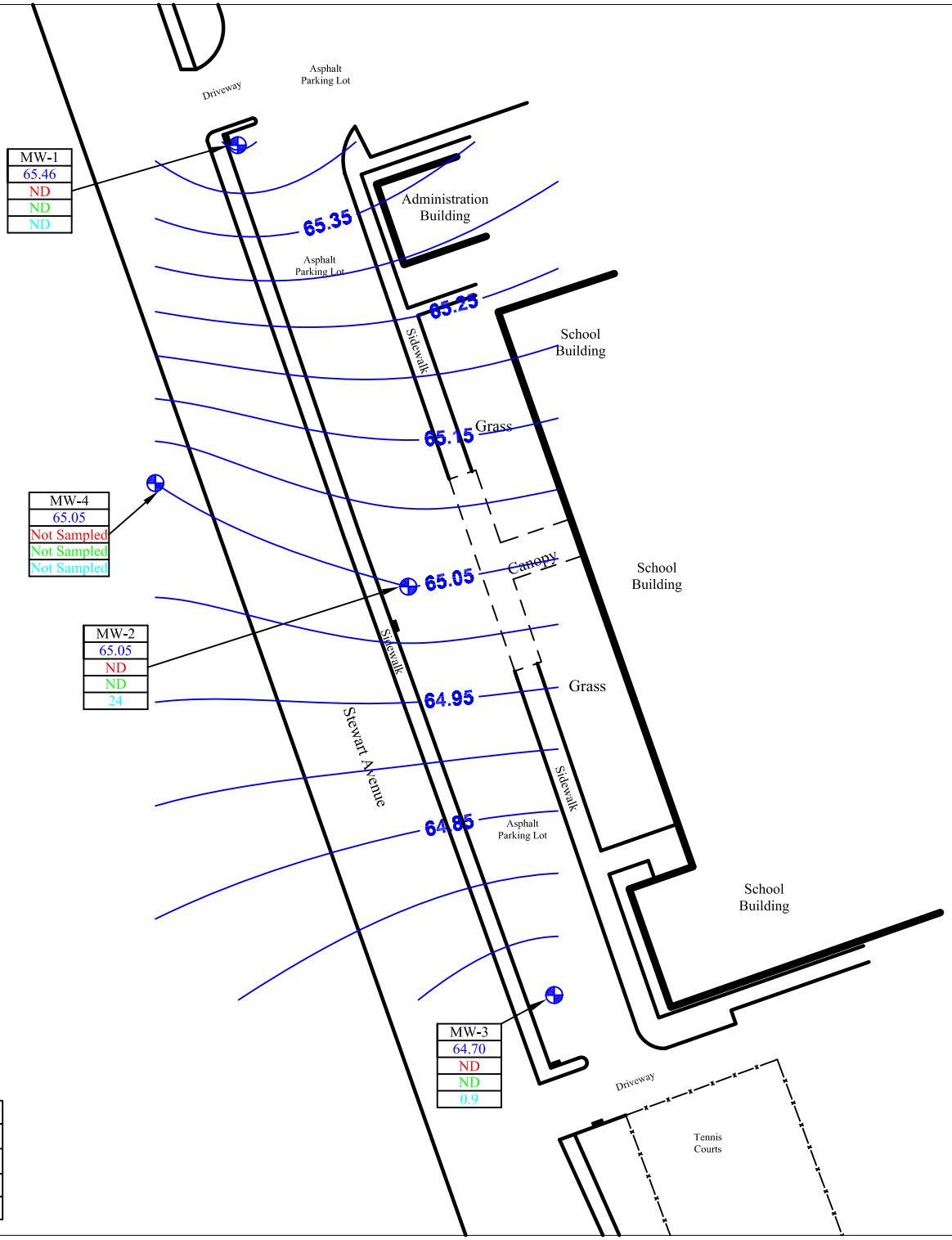
Underground Utility and Monitoring Well Locations Map

Scale	Project No.	Date
As Noted	15-32442	11-04-15

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

Drawing No.

2



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Drawing Title

Figure No. 3

Groundwater Gradient and Analytical Results Map

Scale	Project No.	Date
As Noted	15-32442	11-04-15

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

Drawing No.

3

Appendix B
Laboratory Analysis Report

Technical Report

prepared for:

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

Report Date: 11/18/2015
Client Project ID: 15-32442
York Project (SDG) No.: 15K0183

Report Date: 11/18/2015
Client Project ID: 15-32442
York Project (SDG) No.: 15K0183

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 November 05, 2015 and listed below. The project was identified as your project: **15-32442**.

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 Notes 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 attachment to 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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
15K0183-01	MW-1	Water	11/04/2015	11/05/2015
15K0183-02	MW-2	Water	11/04/2015	11/05/2015
15K0183-03	MW-3	Water	11/04/2015	11/05/2015

General Notes for York Project (SDG) No.: 15K0183

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 11/18/2015

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **MW-1** | **York Sample ID:** **15K0183-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.2	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
108-86-1	Bromobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
74-97-5	Bromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.06	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
75-25-2	Bromoform	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
74-83-9	Bromomethane	ND		ug/L	0.2	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.09	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854	11/17/2015 16:43	11/18/2015 02:52	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
108-90-7	Chlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
75-00-3	Chloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
67-66-3	Chloroform	ND		ug/L	0.2	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
74-87-3	Chloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
74-95-3	Dibromomethane	ND		ug/L	0.08	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	11/17/2015 16:43	11/18/2015 02:52	SS

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 15K0183-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
594-20-7	* 2,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NJDEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.04	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.09	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-09-2	Methylene chloride	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
91-20-3	Naphthalene	ND		ug/L	0.06	2.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-42-5	Styrene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 15K0183-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
127-18-4	Tetrachloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-88-3	Toluene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-01-6	Trichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-47-6	o-Xylene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.2	1.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854		
75-45-6	Chlorodifluoromethane (Freon 22)	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	NELAC-NY10854		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 02:52	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*108 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*117 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*81-117*

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 15K0183-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-86-1	Bromobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-97-5	Bromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.06	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-25-2	Bromoform	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-83-9	Bromomethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.09	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854		
56-23-5	Carbon tetrachloride	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-90-7	Chlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-00-3	Chloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-66-3	Chloroform	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-87-3	Chloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-95-3	Dibromomethane	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 15K0183-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
594-20-7	* 2,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NJDEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.04	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.09	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-09-2	Methylene chloride	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
91-20-3	Naphthalene	ND		ug/L	0.06	2.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-42-5	Styrene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 15K0183-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-88-3	Toluene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-01-6	Trichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-47-6	o-Xylene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.2	1.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854		
75-45-6	**Chlorodifluoromethane (Freon 22)**	**24**		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	NELAC-NY10854		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 03:30	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*114 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*81-117*

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 15K0183-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-86-1	Bromobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-97-5	Bromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.06	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-25-2	Bromoform	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-83-9	Bromomethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.09	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854		
56-23-5	Carbon tetrachloride	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-90-7	Chlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-00-3	Chloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-66-3	Chloroform	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-87-3	Chloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
74-95-3	Dibromomethane	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 15K0183-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
594-20-7	* 2,2-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NJDEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.04	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.09	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-09-2	Methylene chloride	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
91-20-3	Naphthalene	ND		ug/L	0.06	2.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
100-42-5	Styrene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 15K0183-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15K0183	15-32442	Water	November 4, 2015 3:00 pm	11/05/2015

Volatile Organics, 524.2 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-88-3	Toluene	ND		ug/L	0.05	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.08	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
79-01-6	Trichloroethylene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.1	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
95-47-6	o-Xylene	ND		ug/L	0.07	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.2	1.0	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854		
75-45-6	**Chlorodifluoromethane (Freon 22)**	**0.9**		ug/L	0.2	0.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	NELAC-NY10854		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1.5	1	EPA 524.2	11/17/2015 16:43	11/18/2015 04:09	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*107 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*114 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*81-117*

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15K0183-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15K0183-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15K0183-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

*	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 DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15K0183

YOUR Information

Company: J.C. Broderick
Address: 1775 Expressway Dr. N
Hauppauge, NY 11788
Phone No. 631-584-5492
Contact Person: Steve Muller
E-Mail Address: Smuller@jcbroderick.com

Report To:

Company: JCB
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: JCB
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

15-32442

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type

- Summary Report X
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel ___
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- **York Regulatory Comparison Excel Spreadsheet**

Compare to the following Regs. (please fill in):

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/Authorized By (Signature)

Adam Hutchinson
Name (printed)

Matrix Codes

S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1	11/4/15	GW	EPA 8260 Full, Freon 12, Freon 22	3, 40mL
mw-2	"	"	"	"
mw-3	"	"	"	"

Comments: "Bethpage HS"
10 Cherry Ave
Bethpage, NY 11714

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C X Frozen ___ HCl X MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Samples Relinquished By — Date/Time: 11/4/15
Samples Relinquished By: KBarb 11-5-15 — Date/Time:

Samples Received By: KBarb — Date/Time: 11/5/15 1255 pm
Samples Received in LAB by: PGrace 11-5-15 1910 — Date/Time:

Temperature on Receipt 4.1 °C