

TABLE 2

**GROUNDWATER REMEDIAL ACTION  
ROWE INDUSTRIES SUPERFUND SITE  
SAG HARBOR, NEW YORK**

**Effluent Water Quality Results**

Date Sampled <sup>2/</sup>	pH <sup>1/</sup>	TDS <sup>4/</sup> (mg/l)	PCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1-DCA (ug/l)	1,1-DCE (ug/l)	cis- 1,2-DCE (ug/l)	trans- 1,2-DCE (ug/l)	Xylene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
<b>SPDES Limits</b>	<b>6.5 to 8.5</b>	<b>---</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>---</b>	<b>10</b>	<b>7</b>	<b>---</b>	<b>---</b>
1-Mar-18	6.8	147	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.15 B	0.0574 B
2-Apr-18	6.8	136	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.99	0.0337
2-May-18	6.8	151	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	8.05	0.0492
5-Jun-18	6.8	138	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.252	ND<0.278
2-Jul-18	6.8	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.50	0.127
28-Aug-18	6.9	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.124	0.125
21-Sep-18	6.8	155	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	7.48	0.0369
5-Oct-18	6.9	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.66	ND<0.278
1-Nov-18	6.8	193	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.838	ND<0.278
5-Dec-18	6.9	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.845	ND<0.278
3-Jan-19	6.9	85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.32	ND<0.278
1-Feb-19	6.9	126	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.641	ND<0.278

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

---: Not established

J: Analyte detected below quantitation limits, value shown is a laboratory estimate.

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

ND: Not detected      NA: Not Analyzed

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

1,1,1-TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

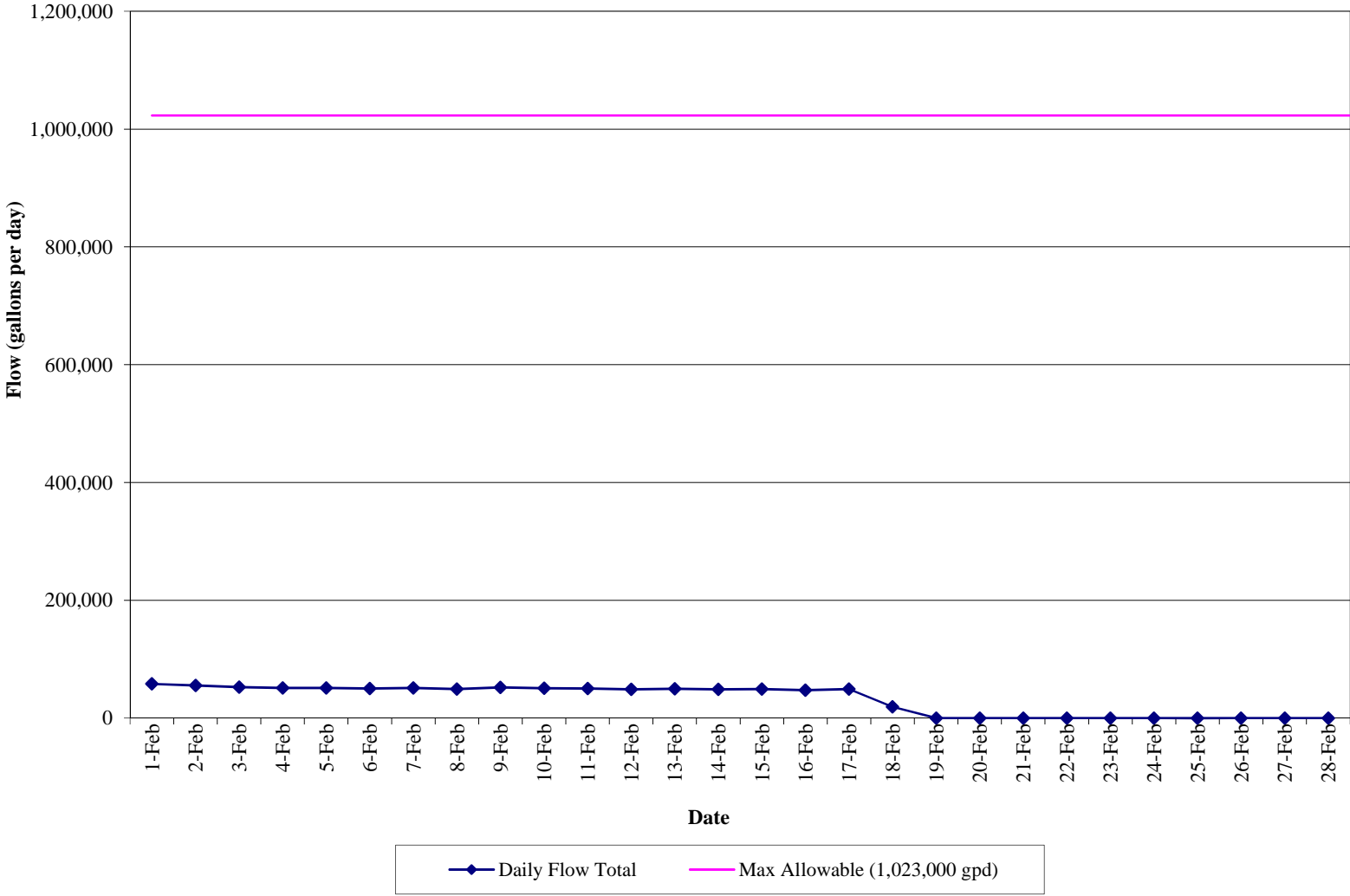
trans-1,2-DCE: trans-1,2-Dichloroethene

## Notes:

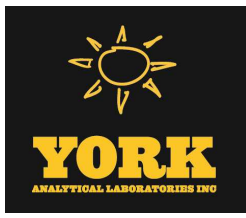
1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The pH of the effluent sample collected on February 15, 2019 was 6.9.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.
4. The laboratory mistakenly forgot to analyze the system effluent sample collected on August 28, 2018 for total dissolved solids (TDS).

**GRAPH 1**  
**GROUNDWATER REMEDIAL ACTION**  
**ROWE INDUSTRIES SUPERFUND SITE**  
**SAG HARBOR, NEW YORK**

**Effluent Flow Data**  
**(February 1, 2019 to February 28, 2019)**



**APPENDIX I**  
**FEBRUARY 2019 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T SYSTEM**



# Technical Report

prepared for:

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
**Attention: Tunde Komuves-Sandor**

Report Date: 02/11/2019  
**Client Project ID: 31401451.000 task 01.00**  
York Project (SDG) No.: 19B0055

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

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

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

Report Date: 02/11/2019  
Client Project ID: 31401451.000 task 01.00  
York Project (SDG) No.: 19B0055

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

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## 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 February 04, 2019 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

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>
19B0055-01	WQ020119: 1300 NP2-6	Water	02/01/2019	02/04/2019
19B0055-02	WQ020119: 1305 NP2-10	Water	02/01/2019	02/04/2019

## **General Notes for York Project (SDG) No.: 19B0055**

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:** 02/11/2019





### Sample Information

**Client Sample ID:** WQ020119: 1300 NP2-6

**York Sample ID:** 19B0055-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19B0055	31401451.000 task 01.00	Water	February 1, 2019 1:00 pm	02/04/2019

### Volatile Organics, 8260 List - Low Level

### 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 13:41	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1300 NP2-6

**York Sample ID:** 19B0055-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:00 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.310</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1300 NP2-6

**York Sample ID:** 19B0055-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:00 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
91-20-3	<b>Naphthalene</b>	<b>1.27</b>		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>4.39</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-01-6	<b>Trichloroethylene</b>	<b>0.340</b>	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 13:41	TMP
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	94.0 %			70-130						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	98.6 %			70-130						



### Sample Information

**Client Sample ID:** WQ020119: 1305 NP2-10

**York Sample ID:** 19B0055-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:05 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 14:09	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1305 NP2-10

**York Sample ID:** 19B0055-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:05 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1305 NP2-10

**York Sample ID:** 19B0055-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:05 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 14:09	TMP

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0 Surrogate: SURRE: 1,2-Dichloroethane-d4

110 %

70-130

2037-26-5 Surrogate: SURRE: Toluene-d8

95.1 %

70-130

460-00-4 Surrogate: SURRE: p-Bromofluorobenzene

97.8 %

70-130

**Iron by EPA 200.7**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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**Sample Information**

**Client Sample ID:** WQ020119: 1305 NP2-10

**York Sample ID:** 19B0055-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:05 pm

02/04/2019

**Iron by EPA 200.7**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.641		mg/L	0.278	1	EPA 200.7	02/05/2019 18:04	02/06/2019 14:10	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

**Iron, Dissolved by EPA 6010**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	02/05/2019 14:11	02/06/2019 20:34	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

**Total Dissolved Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	126		mg/L	10.0	1	SM 2540C	02/05/2019 22:29	02/06/2019 22:43	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



## Analytical Batch Summary

**Batch ID:** BB90120      **Preparation Method:** EPA 5030B      **Prepared By:** KU

YORK Sample ID	Client Sample ID	Preparation Date
19B0055-01	WQ020119: 1300 NP2-6	02/06/19
19B0055-02	WQ020119: 1305 NP2-10	02/06/19
BB90120-BLK1	Blank	02/06/19
BB90120-BS1	LCS	02/06/19
BB90120-BSD1	LCS Dup	02/06/19

**Batch ID:** BB90221      **Preparation Method:** EPA 3015A      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19B0055-02	WQ020119: 1305 NP2-10	02/05/19
BB90221-BLK1	Blank	02/05/19
BB90221-BS1	LCS	02/05/19

**Batch ID:** BB90240      **Preparation Method:** EPA 200.7      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19B0055-02	WQ020119: 1305 NP2-10	02/05/19
BB90240-BLK1	Blank	02/05/19
BB90240-BS1	LCS	02/05/19
BB90240-DUP1	Duplicate	02/05/19
BB90240-MS1	Matrix Spike	02/05/19

**Batch ID:** BB90251      **Preparation Method:** % Solids Prep      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
19B0055-02	WQ020119: 1305 NP2-10	02/05/19
BB90251-BLK1	Blank	02/05/19



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**Blank (BB90120-BLK1)**

Prepared & Analyzed: 02/06/2019

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**Blank (BB90120-BLK1)**

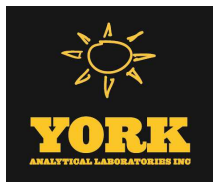
Prepared & Analyzed: 02/06/2019

o-Xylene	ND	0.500	ug/L								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.9		"	10.0		109	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.43		"	10.0		94.3	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.91		"	10.0		99.1	70-130				

**LCS (BB90120-BS1)**

Prepared & Analyzed: 02/06/2019

1,1,1,2-Tetrachloroethane	9.27		ug/L	10.0		92.7	82-126				30
1,1,1-Trichloroethane	11.1		"	10.0		111	70-130				20
1,1,2,2-Tetrachloroethane	8.55		"	10.0		85.5	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	70-130				20
1,1,2-Trichloroethane	7.83		"	10.0		78.3	70-130				20
1,1-Dichloroethane	8.90		"	10.0		89.0	70-130				20
1,1-Dichloroethylene	8.73		"	10.0		87.3	70-130				20
1,1-Dichloropropylene	9.42		"	10.0		94.2	83-133				30
1,2,3-Trichlorobenzene	9.75		"	10.0		97.5	70-130				20
1,2,3-Trichloropropane	9.55		"	10.0		95.5	77-128				30
1,2,4-Trichlorobenzene	9.43		"	10.0		94.3	70-130				20
1,2,4-Trimethylbenzene	8.98		"	10.0		89.8	82-132				20
1,2-Dibromo-3-chloropropane	7.98		"	10.0		79.8	40-160				20
1,2-Dibromoethane	8.60		"	10.0		86.0	70-130				20
1,2-Dichlorobenzene	9.40		"	10.0		94.0	70-130				20
1,2-Dichloroethane	9.05		"	10.0		90.5	70-130				20
1,2-Dichloropropane	7.04		"	10.0		70.4	70-130				20
1,3,5-Trimethylbenzene	9.36		"	10.0		93.6	80-131				30
1,3-Dichlorobenzene	9.58		"	10.0		95.8	70-130				20
1,3-Dichloropropane	7.71		"	10.0		77.1	81-125	Low Bias			30
1,4-Dichlorobenzene	9.41		"	10.0		94.1	70-130				20
2,2-Dichloropropane	10.7		"	10.0		107	56-150				30
2-Chlorotoluene	9.24		"	10.0		92.4	79-130				30
2-Hexanone	7.33		"	10.0		73.3	40-160				20
4-Chlorotoluene	8.96		"	10.0		89.6	79-128				30
Acetone	8.71		"	10.0		87.1	40-160				20
Benzene	9.31		"	10.0		93.1	70-130				20
Bromobenzene	8.55		"	10.0		85.5	78-129				30
Bromochloromethane	8.24		"	10.0		82.4	70-130				20
Bromodichloromethane	8.10		"	10.0		81.0	70-130				20
Bromoform	9.11		"	10.0		91.1	70-130				20
Bromomethane	8.34		"	10.0		83.4	40-160				20



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**LCS (BB90120-BS1)**

Prepared & Analyzed: 02/06/2019

Carbon tetrachloride	11.0		ug/L	10.0		110	70-130				20
Chlorobenzene	8.90		"	10.0		89.0	70-130				20
Chloroethane	8.25		"	10.0		82.5	40-160				20
Chloroform	9.77		"	10.0		97.7	70-130				20
Chloromethane	5.87		"	10.0		58.7	40-160				20
cis-1,2-Dichloroethylene	9.06		"	10.0		90.6	70-130				20
cis-1,3-Dichloropropylene	7.74		"	10.0		77.4	70-130				20
Dibromochloromethane	9.23		"	10.0		92.3	70-130				20
Dibromomethane	7.88		"	10.0		78.8	72-134				30
Dichlorodifluoromethane	8.35		"	10.0		83.5	40-160				20
Ethyl Benzene	8.82		"	10.0		88.2	70-130				20
Hexachlorobutadiene	8.83		"	10.0		88.3	67-146				30
Isopropylbenzene	9.66		"	10.0		96.6	70-130				20
Methyl tert-butyl ether (MTBE)	8.92		"	10.0		89.2	70-130				20
Methylene chloride	9.23		"	10.0		92.3	70-130				20
Naphthalene	9.26		"	10.0		92.6	70-147				30
n-Butylbenzene	8.41		"	10.0		84.1	79-132				30
n-Propylbenzene	9.13		"	10.0		91.3	78-133				30
o-Xylene	8.78		"	10.0		87.8	70-130				20
p- & m- Xylenes	17.9		"	20.0		89.4	70-130				20
p-Isopropyltoluene	9.20		"	10.0		92.0	81-136				30
sec-Butylbenzene	9.42		"	10.0		94.2	79-137				30
Styrene	8.68		"	10.0		86.8	70-130				20
tert-Butylbenzene	9.61		"	10.0		96.1	77-138				30
Tetrachloroethylene	8.57		"	10.0		85.7	70-130				20
Toluene	8.53		"	10.0		85.3	70-130				20
trans-1,2-Dichloroethylene	8.90		"	10.0		89.0	70-130				20
trans-1,3-Dichloropropylene	8.06		"	10.0		80.6	70-130				20
Trichloroethylene	8.33		"	10.0		83.3	70-130				20
Trichlorofluoromethane	9.66		"	10.0		96.6	40-160				20
Vinyl Chloride	7.17		"	10.0		71.7	70-130				20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BB90120 - EPA 5030B</b>											
<b>LCS Dup (BB90120-BSD1)</b>											
Prepared & Analyzed: 02/06/2019											
1,1,1,2-Tetrachloroethane	9.31		ug/L	10.0		93.1	82-126		0.431	30	
1,1,1-Trichloroethane	10.7		"	10.0		107	70-130		3.57	20	
1,1,2,2-Tetrachloroethane	8.59		"	10.0		85.9	70-130		0.467	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	70-130		2.71	20	
1,1,2-Trichloroethane	7.90		"	10.0		79.0	70-130		0.890	20	
1,1-Dichloroethane	8.63		"	10.0		86.3	70-130		3.08	20	
1,1-Dichloroethylene	8.44		"	10.0		84.4	70-130		3.38	20	
1,1-Dichloropropylene	8.92		"	10.0		89.2	83-133		5.45	30	
1,2,3-Trichlorobenzene	9.97		"	10.0		99.7	70-130		2.23	20	
1,2,3-Trichloropropane	9.39		"	10.0		93.9	77-128		1.69	30	
1,2,4-Trichlorobenzene	9.27		"	10.0		92.7	70-130		1.71	20	
1,2,4-Trimethylbenzene	8.65		"	10.0		86.5	82-132		3.74	20	
1,2-Dibromo-3-chloropropane	8.22		"	10.0		82.2	40-160		2.96	20	
1,2-Dibromoethane	8.85		"	10.0		88.5	70-130		2.87	20	
1,2-Dichlorobenzene	9.01		"	10.0		90.1	70-130		4.24	20	
1,2-Dichloroethane	9.12		"	10.0		91.2	70-130		0.770	20	
1,2-Dichloropropane	6.92		"	10.0		69.2	70-130	Low Bias	1.72	20	
1,3,5-Trimethylbenzene	8.96		"	10.0		89.6	80-131		4.37	30	
1,3-Dichlorobenzene	9.15		"	10.0		91.5	70-130		4.59	20	
1,3-Dichloropropane	7.67		"	10.0		76.7	81-125	Low Bias	0.520	30	
1,4-Dichlorobenzene	8.98		"	10.0		89.8	70-130		4.68	20	
2,2-Dichloropropane	10.1		"	10.0		101	56-150		5.47	30	
2-Chlorotoluene	8.79		"	10.0		87.9	79-130		4.99	30	
2-Hexanone	7.54		"	10.0		75.4	40-160		2.82	20	
4-Chlorotoluene	8.55		"	10.0		85.5	79-128		4.68	30	
Acetone	8.18		"	10.0		81.8	40-160		6.28	20	
Benzene	9.05		"	10.0		90.5	70-130		2.83	20	
Bromobenzene	8.11		"	10.0		81.1	78-129		5.28	30	
Bromochloromethane	8.28		"	10.0		82.8	70-130		0.484	20	
Bromodichloromethane	7.98		"	10.0		79.8	70-130		1.49	20	
Bromoform	9.63		"	10.0		96.3	70-130		5.55	20	
Bromomethane	8.43		"	10.0		84.3	40-160		1.07	20	
Carbon tetrachloride	10.6		"	10.0		106	70-130		2.78	20	
Chlorobenzene	8.73		"	10.0		87.3	70-130		1.93	20	
Chloroethane	7.76		"	10.0		77.6	40-160		6.12	20	
Chloroform	9.47		"	10.0		94.7	70-130		3.12	20	
Chloromethane	5.04		"	10.0		50.4	40-160		15.2	20	
cis-1,2-Dichloroethylene	8.56		"	10.0		85.6	70-130		5.68	20	
cis-1,3-Dichloropropylene	7.58		"	10.0		75.8	70-130		2.09	20	
Dibromochloromethane	9.15		"	10.0		91.5	70-130		0.871	20	
Dibromomethane	8.23		"	10.0		82.3	72-134		4.35	30	
Dichlorodifluoromethane	7.96		"	10.0		79.6	40-160		4.78	20	
Ethyl Benzene	8.55		"	10.0		85.5	70-130		3.11	20	
Hexachlorobutadiene	9.29		"	10.0		92.9	67-146		5.08	30	
Isopropylbenzene	9.10		"	10.0		91.0	70-130		5.97	20	
Methyl tert-butyl ether (MTBE)	9.40		"	10.0		94.0	70-130		5.24	20	
Methylene chloride	9.05		"	10.0		90.5	70-130		1.97	20	
Naphthalene	9.49		"	10.0		94.9	70-147		2.45	30	
n-Butylbenzene	8.15		"	10.0		81.5	79-132		3.14	30	
n-Propylbenzene	8.50		"	10.0		85.0	78-133		7.15	30	
o-Xylene	8.60		"	10.0		86.0	70-130		2.07	20	



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

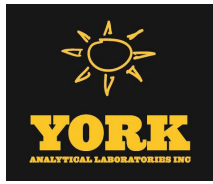
Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BB90120 - EPA 5030B**

**LCS Dup (BB90120-BSD1)**

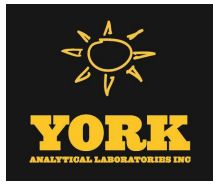
Prepared & Analyzed: 02/06/2019

p- & m- Xylenes	17.1		ug/L	20.0		85.4	70-130			4.57	20		
p-Isopropyltoluene	9.09		"	10.0		90.9	81-136			1.20	30		
sec-Butylbenzene	8.98		"	10.0		89.8	79-137			4.78	30		
Styrene	8.54		"	10.0		85.4	70-130			1.63	20		
tert-Butylbenzene	9.15		"	10.0		91.5	77-138			4.90	30		
Tetrachloroethylene	8.20		"	10.0		82.0	70-130			4.41	20		
Toluene	8.32		"	10.0		83.2	70-130			2.49	20		
trans-1,2-Dichloroethylene	8.38		"	10.0		83.8	70-130			6.02	20		
trans-1,3-Dichloropropylene	7.98		"	10.0		79.8	70-130			0.998	20		
Trichloroethylene	7.73		"	10.0		77.3	70-130			7.47	20		
Trichlorofluoromethane	9.56		"	10.0		95.6	40-160			1.04	20		
Vinyl Chloride	6.83		"	10.0		68.3	70-130		Low Bias	4.86	20		
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.8</i>		<i>"</i>	<i>10.0</i>		<i>108</i>	<i>70-130</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.47</i>		<i>"</i>	<i>10.0</i>		<i>94.7</i>	<i>70-130</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.88</i>		<i>"</i>	<i>10.0</i>		<i>98.8</i>	<i>70-130</i>						



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit
<b>Batch BB90221 - EPA 3015A</b>											
<b>Blank (BB90221-BLK1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
Iron - Dissolved	ND	0.278	mg/L								
<b>LCS (BB90221-BS1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
Iron - Dissolved	1.61		ug/mL	1.00		161	80-120	High Bias			
<b>Batch BB90240 - EPA 200.7</b>											
<b>Blank (BB90240-BLK1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
Iron	ND	0.278	mg/L								
<b>LCS (BB90240-BS1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
Iron	1.06		ug/mL	1.00		106	85-115				
<b>Duplicate (BB90240-DUP1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
	*Source sample: 19B0055-02 (WQ020119: 1305 NP2-10)										
Iron	0.631	0.278	mg/L		0.641				1.54	20	
<b>Matrix Spike (BB90240-MS1)</b>											Prepared: 02/05/2019 Analyzed: 02/06/2019
	*Source sample: 19B0055-02 (WQ020119: 1305 NP2-10)										
Iron	1.71	0.278	mg/L	1.11	0.641	96.1	75-125				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

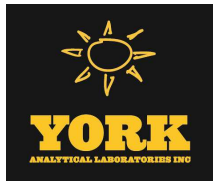
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

**Batch BB90251 - % Solids Prep**

**Blank (BB90251-BLK1)**

Prepared: 02/05/2019 Analyzed: 02/06/2019

Total Dissolved Solids	ND	10.0	mg/L								
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### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19B0055-01	WQ020119: 1300 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19B0055-02	WQ020119: 1305 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

### Definitions and Other Explanations

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

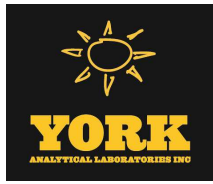
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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

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York Analytical Laboratories, Inc.  
120 Research Drive  
Stratford, CT 06615  
clientservices@yorklab.com  
www.yorklab.com



# Field Chain-of-Custody Record

YORK Project No.  
**19B0055**

Page **1** of **1**

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

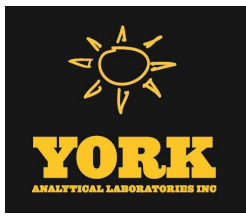
<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: <b>NSP USA</b>	Company: <b>Same</b>	Company: <b>Same</b>	Company: <b>Same</b>	Address: <b>4 Research Dr, Ste 204 Shelton CT 06484</b>	Address: <b>task 01.00</b>	Address: <b>31401451.000</b>	RUSH - Next Day	RUSH - Two Day	RUSH - Three Day
Address: <b>203-929-1555</b>	Address: <b>Tonic Sandoz</b>	Address: <b>Tonic Sandoz</b>	Address: <b>Tonic Sandoz</b>	Phone: <b>Tonic Sandoz</b>	Phone: <b>Tonic Sandoz</b>	Phone: <b>task 01.00</b>	RUSH - Four Day	RUSH - Five Day	RUSH - Six Day
Contact: <b>Tonic Sandoz</b>	Contact: <b>Tonic Sandoz</b>	Contact: <b>Tonic Sandoz</b>	Contact: <b>Tonic Sandoz</b>	E-mail: <b>Tonic Sandoz</b>	E-mail: <b>Tonic Sandoz</b>	E-mail: <b>task 01.00</b>	Standard (5-7 Day)	Standard (8-10 Day)	Standard (11-14 Day)

<b>YOUR Project Name</b>		<b>YOUR PO#:</b>	
<b>task 01.00</b>		<b>task 01.00</b>	

Sample Identification	Sample Matrix	Matrix Codes	Samples From	Report / EDD Type (circle selections)	Analysis Requested	Container Description
WQ020119 1300 NP2-6	GW	S - soil / solid GW - groundwater	New York	Summary Report	CT RCP	3000
WQ020119 1305 NP2-10	GW	DW - drinking water WW - wastewater O - Oil ; Other	New Jersey	QA Report	CT RCP DQADUE	3000, 3 plastic
			Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	
			Pennsylvania	NY ASP B Package	NJDEP SRP HazSite	
			Other		Other: PDF	

<b>Comments:</b>		<b>Preservation: (check all that apply)</b>	
<p>WQ020119 1300 NP2-6 WQ020119 1305 NP2-10 VOC's 8260 full list + Freon 113 VOC's 8260 full list + Freon 113; Fe by EPA 201.7; Fe dissolved by EPA 6010; TDS</p>		<p>HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___</p>	
Date/Time	Date/Time	Date/Time	Date/Time
2-4-19 1237			
Samples Relinquished by / Company		Samples Relinquished by / Company	
Date/Time		Date/Time	
2-4-19 1237			
Samples Received by / Company		Samples Received by / Company	
Date/Time		Date/Time	
Samples Relinquished by / Company		Samples Received in LAB by	
Date/Time		Date/Time	
		7 Feb 2-4-19 1237	
Temp. Received at Lab		Temp. Received at Lab	
		4.5	

**APPENDIX II**  
**FEBRUARY 2019 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T AND FP&T RECOVERY WELLS**



# Technical Report

prepared for:

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
**Attention: Tunde Komuves-Sandor**

Report Date: 02/11/2019  
**Client Project ID: 31401451.000 task 01.00**  
York Project (SDG) No.: 19B0057

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

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

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

Report Date: 02/11/2019  
Client Project ID: 31401451.000 task 01.00  
York Project (SDG) No.: 19B0057

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

---

## 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 February 04, 2019 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

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>
19B0057-01	WQ020119: 1230 FRW-1	Water	02/01/2019	02/04/2019
19B0057-02	WQ020119: 1235 FRW-2	Water	02/01/2019	02/04/2019
19B0057-03	WQ020119: 1240 FRW-3	Water	02/01/2019	02/04/2019
19B0057-04	WQ020119: 1245 FRW-4	Water	02/01/2019	02/04/2019
19B0057-05	WQ020119: 1250 NP1-1-2	Water	02/01/2019	02/04/2019

## **General Notes for York Project (SDG) No.: 19B0057**

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:** 02/11/2019





### Sample Information

**Client Sample ID:** WQ020119: 1230 FRW-1

**York Sample ID:** 19B0057-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19B0057	31401451.000 task 01.00	Water	February 1, 2019 12:30 pm	02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 14:36	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1230 FRW-1

**York Sample ID:** 19B0057-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:30 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1230 FRW-1

**York Sample ID:** 19B0057-01

<u>York Project (SDG) No.</u> 19B0057	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> February 1, 2019 12:30 pm	<u>Date Received</u> 02/04/2019
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**Volatile Organics, 8260 List - Low Level**

**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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>61.2</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-01-6	<b>Trichloroethylene</b>	<b>0.550</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 14:36	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	93.2 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.3 %	70-130								



### Sample Information

**Client Sample ID:** WQ020119: 1235 FRW-2

**York Sample ID:** 19B0057-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:35 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:03	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1235 FRW-2

**York Sample ID:** 19B0057-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:35 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.00</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1235 FRW-2

**York Sample ID:** 19B0057-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:35 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>16.2</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-01-6	<b>Trichloroethylene</b>	<b>0.980</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:03	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	107 %	70-130
2037-26-5	Surrogate: SURRE: Toluene-d8	93.9 %	70-130
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.8 %	70-130



### Sample Information

**Client Sample ID:** WQ020119: 1240 FRW-3

**York Sample ID:** 19B0057-03

<u>York Project (SDG) No.</u> 19B0057	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> February 1, 2019 12:40 pm	<u>Date Received</u> 02/04/2019
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**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.330</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:30	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1240 FRW-3

**York Sample ID:** 19B0057-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:40 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>3.69</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1240 FRW-3

**York Sample ID:** 19B0057-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:40 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>76.4</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-01-6	<b>Trichloroethylene</b>	<b>1.41</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:30	TMP
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %			70-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	92.6 %			70-130						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	100 %			70-130						



### Sample Information

**Client Sample ID:** WQ020119: 1245 FRW-4

**York Sample ID:** 19B0057-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:45 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:57	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1245 FRW-4

**York Sample ID:** 19B0057-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:45 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.200</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1245 FRW-4

**York Sample ID:** 19B0057-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:45 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>1.22</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:57	TMP
	<b>Surrogate Recoveries</b>	<b>Result</b>						<b>Acceptance Range</b>			
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	110 %						70-130			
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	94.1 %						70-130			
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	99.3 %						70-130			



### Sample Information

**Client Sample ID:** WQ020119: 1250 NP1-1-2

**York Sample ID:** 19B0057-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:50 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 16:24	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1250 NP1-1-2

**York Sample ID:** 19B0057-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:50 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP



### Sample Information

**Client Sample ID:** WQ020119: 1250 NP1-1-2

**York Sample ID:** 19B0057-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:50 pm

02/04/2019

**Volatile Organics, 8260 List - Low Level**

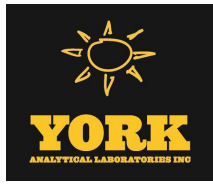
**Log-in Notes:**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>0.380</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-01-6	<b>Trichloroethylene</b>	<b>0.360</b>	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 16:24	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %	70-130
2037-26-5	Surrogate: SURRE: Toluene-d8	95.8 %	70-130
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.5 %	70-130



## Analytical Batch Summary

**Batch ID:** BB90120

**Preparation Method:** EPA 5030B

**Prepared By:** KU

YORK Sample ID	Client Sample ID	Preparation Date
19B0057-01	WQ020119: 1230 FRW-1	02/06/19
19B0057-02	WQ020119: 1235 FRW-2	02/06/19
19B0057-03	WQ020119: 1240 FRW-3	02/06/19
19B0057-04	WQ020119: 1245 FRW-4	02/06/19
19B0057-05	WQ020119: 1250 NP1-1-2	02/06/19
BB90120-BLK1	Blank	02/06/19
BB90120-BS1	LCS	02/06/19
BB90120-BSD1	LCS Dup	02/06/19



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**Blank (BB90120-BLK1)**

Prepared & Analyzed: 02/06/2019

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**Blank (BB90120-BLK1)**

Prepared & Analyzed: 02/06/2019

o-Xylene	ND	0.500	ug/L								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.9		"	10.0		109	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.43		"	10.0		94.3	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.91		"	10.0		99.1	70-130				

**LCS (BB90120-BS1)**

Prepared & Analyzed: 02/06/2019

1,1,1,2-Tetrachloroethane	9.27		ug/L	10.0		92.7	82-126				30
1,1,1-Trichloroethane	11.1		"	10.0		111	70-130				20
1,1,2,2-Tetrachloroethane	8.55		"	10.0		85.5	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	70-130				20
1,1,2-Trichloroethane	7.83		"	10.0		78.3	70-130				20
1,1-Dichloroethane	8.90		"	10.0		89.0	70-130				20
1,1-Dichloroethylene	8.73		"	10.0		87.3	70-130				20
1,1-Dichloropropylene	9.42		"	10.0		94.2	83-133				30
1,2,3-Trichlorobenzene	9.75		"	10.0		97.5	70-130				20
1,2,3-Trichloropropane	9.55		"	10.0		95.5	77-128				30
1,2,4-Trichlorobenzene	9.43		"	10.0		94.3	70-130				20
1,2,4-Trimethylbenzene	8.98		"	10.0		89.8	82-132				20
1,2-Dibromo-3-chloropropane	7.98		"	10.0		79.8	40-160				20
1,2-Dibromoethane	8.60		"	10.0		86.0	70-130				20
1,2-Dichlorobenzene	9.40		"	10.0		94.0	70-130				20
1,2-Dichloroethane	9.05		"	10.0		90.5	70-130				20
1,2-Dichloropropane	7.04		"	10.0		70.4	70-130				20
1,3,5-Trimethylbenzene	9.36		"	10.0		93.6	80-131				30
1,3-Dichlorobenzene	9.58		"	10.0		95.8	70-130				20
1,3-Dichloropropane	7.71		"	10.0		77.1	81-125	Low Bias			30
1,4-Dichlorobenzene	9.41		"	10.0		94.1	70-130				20
2,2-Dichloropropane	10.7		"	10.0		107	56-150				30
2-Chlorotoluene	9.24		"	10.0		92.4	79-130				30
2-Hexanone	7.33		"	10.0		73.3	40-160				20
4-Chlorotoluene	8.96		"	10.0		89.6	79-128				30
Acetone	8.71		"	10.0		87.1	40-160				20
Benzene	9.31		"	10.0		93.1	70-130				20
Bromobenzene	8.55		"	10.0		85.5	78-129				30
Bromochloromethane	8.24		"	10.0		82.4	70-130				20
Bromodichloromethane	8.10		"	10.0		81.0	70-130				20
Bromoform	9.11		"	10.0		91.1	70-130				20
Bromomethane	8.34		"	10.0		83.4	40-160				20



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BB90120 - EPA 5030B**

**LCS (BB90120-BS1)**

Prepared & Analyzed: 02/06/2019

Carbon tetrachloride	11.0		ug/L	10.0		110	70-130				20
Chlorobenzene	8.90		"	10.0		89.0	70-130				20
Chloroethane	8.25		"	10.0		82.5	40-160				20
Chloroform	9.77		"	10.0		97.7	70-130				20
Chloromethane	5.87		"	10.0		58.7	40-160				20
cis-1,2-Dichloroethylene	9.06		"	10.0		90.6	70-130				20
cis-1,3-Dichloropropylene	7.74		"	10.0		77.4	70-130				20
Dibromochloromethane	9.23		"	10.0		92.3	70-130				20
Dibromomethane	7.88		"	10.0		78.8	72-134				30
Dichlorodifluoromethane	8.35		"	10.0		83.5	40-160				20
Ethyl Benzene	8.82		"	10.0		88.2	70-130				20
Hexachlorobutadiene	8.83		"	10.0		88.3	67-146				30
Isopropylbenzene	9.66		"	10.0		96.6	70-130				20
Methyl tert-butyl ether (MTBE)	8.92		"	10.0		89.2	70-130				20
Methylene chloride	9.23		"	10.0		92.3	70-130				20
Naphthalene	9.26		"	10.0		92.6	70-147				30
n-Butylbenzene	8.41		"	10.0		84.1	79-132				30
n-Propylbenzene	9.13		"	10.0		91.3	78-133				30
o-Xylene	8.78		"	10.0		87.8	70-130				20
p- & m- Xylenes	17.9		"	20.0		89.4	70-130				20
p-Isopropyltoluene	9.20		"	10.0		92.0	81-136				30
sec-Butylbenzene	9.42		"	10.0		94.2	79-137				30
Styrene	8.68		"	10.0		86.8	70-130				20
tert-Butylbenzene	9.61		"	10.0		96.1	77-138				30
Tetrachloroethylene	8.57		"	10.0		85.7	70-130				20
Toluene	8.53		"	10.0		85.3	70-130				20
trans-1,2-Dichloroethylene	8.90		"	10.0		89.0	70-130				20
trans-1,3-Dichloropropylene	8.06		"	10.0		80.6	70-130				20
Trichloroethylene	8.33		"	10.0		83.3	70-130				20
Trichlorofluoromethane	9.66		"	10.0		96.6	40-160				20
Vinyl Chloride	7.17		"	10.0		71.7	70-130				20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BB90120 - EPA 5030B</b>											
<b>LCS Dup (BB90120-BSD1)</b>											
Prepared & Analyzed: 02/06/2019											
1,1,1,2-Tetrachloroethane	9.31		ug/L	10.0		93.1	82-126		0.431	30	
1,1,1-Trichloroethane	10.7		"	10.0		107	70-130		3.57	20	
1,1,2,2-Tetrachloroethane	8.59		"	10.0		85.9	70-130		0.467	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	70-130		2.71	20	
1,1,2-Trichloroethane	7.90		"	10.0		79.0	70-130		0.890	20	
1,1-Dichloroethane	8.63		"	10.0		86.3	70-130		3.08	20	
1,1-Dichloroethylene	8.44		"	10.0		84.4	70-130		3.38	20	
1,1-Dichloropropylene	8.92		"	10.0		89.2	83-133		5.45	30	
1,2,3-Trichlorobenzene	9.97		"	10.0		99.7	70-130		2.23	20	
1,2,3-Trichloropropane	9.39		"	10.0		93.9	77-128		1.69	30	
1,2,4-Trichlorobenzene	9.27		"	10.0		92.7	70-130		1.71	20	
1,2,4-Trimethylbenzene	8.65		"	10.0		86.5	82-132		3.74	20	
1,2-Dibromo-3-chloropropane	8.22		"	10.0		82.2	40-160		2.96	20	
1,2-Dibromoethane	8.85		"	10.0		88.5	70-130		2.87	20	
1,2-Dichlorobenzene	9.01		"	10.0		90.1	70-130		4.24	20	
1,2-Dichloroethane	9.12		"	10.0		91.2	70-130		0.770	20	
1,2-Dichloropropane	6.92		"	10.0		69.2	70-130	Low Bias	1.72	20	
1,3,5-Trimethylbenzene	8.96		"	10.0		89.6	80-131		4.37	30	
1,3-Dichlorobenzene	9.15		"	10.0		91.5	70-130		4.59	20	
1,3-Dichloropropane	7.67		"	10.0		76.7	81-125	Low Bias	0.520	30	
1,4-Dichlorobenzene	8.98		"	10.0		89.8	70-130		4.68	20	
2,2-Dichloropropane	10.1		"	10.0		101	56-150		5.47	30	
2-Chlorotoluene	8.79		"	10.0		87.9	79-130		4.99	30	
2-Hexanone	7.54		"	10.0		75.4	40-160		2.82	20	
4-Chlorotoluene	8.55		"	10.0		85.5	79-128		4.68	30	
Acetone	8.18		"	10.0		81.8	40-160		6.28	20	
Benzene	9.05		"	10.0		90.5	70-130		2.83	20	
Bromobenzene	8.11		"	10.0		81.1	78-129		5.28	30	
Bromochloromethane	8.28		"	10.0		82.8	70-130		0.484	20	
Bromodichloromethane	7.98		"	10.0		79.8	70-130		1.49	20	
Bromoform	9.63		"	10.0		96.3	70-130		5.55	20	
Bromomethane	8.43		"	10.0		84.3	40-160		1.07	20	
Carbon tetrachloride	10.6		"	10.0		106	70-130		2.78	20	
Chlorobenzene	8.73		"	10.0		87.3	70-130		1.93	20	
Chloroethane	7.76		"	10.0		77.6	40-160		6.12	20	
Chloroform	9.47		"	10.0		94.7	70-130		3.12	20	
Chloromethane	5.04		"	10.0		50.4	40-160		15.2	20	
cis-1,2-Dichloroethylene	8.56		"	10.0		85.6	70-130		5.68	20	
cis-1,3-Dichloropropylene	7.58		"	10.0		75.8	70-130		2.09	20	
Dibromochloromethane	9.15		"	10.0		91.5	70-130		0.871	20	
Dibromomethane	8.23		"	10.0		82.3	72-134		4.35	30	
Dichlorodifluoromethane	7.96		"	10.0		79.6	40-160		4.78	20	
Ethyl Benzene	8.55		"	10.0		85.5	70-130		3.11	20	
Hexachlorobutadiene	9.29		"	10.0		92.9	67-146		5.08	30	
Isopropylbenzene	9.10		"	10.0		91.0	70-130		5.97	20	
Methyl tert-butyl ether (MTBE)	9.40		"	10.0		94.0	70-130		5.24	20	
Methylene chloride	9.05		"	10.0		90.5	70-130		1.97	20	
Naphthalene	9.49		"	10.0		94.9	70-147		2.45	30	
n-Butylbenzene	8.15		"	10.0		81.5	79-132		3.14	30	
n-Propylbenzene	8.50		"	10.0		85.0	78-133		7.15	30	
o-Xylene	8.60		"	10.0		86.0	70-130		2.07	20	



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

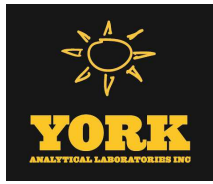
Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BB90120 - EPA 5030B**

**LCS Dup (BB90120-BSD1)**

Prepared & Analyzed: 02/06/2019

p- & m- Xylenes	17.1		ug/L	20.0		85.4	70-130			4.57		20	
p-Isopropyltoluene	9.09		"	10.0		90.9	81-136			1.20		30	
sec-Butylbenzene	8.98		"	10.0		89.8	79-137			4.78		30	
Styrene	8.54		"	10.0		85.4	70-130			1.63		20	
tert-Butylbenzene	9.15		"	10.0		91.5	77-138			4.90		30	
Tetrachloroethylene	8.20		"	10.0		82.0	70-130			4.41		20	
Toluene	8.32		"	10.0		83.2	70-130			2.49		20	
trans-1,2-Dichloroethylene	8.38		"	10.0		83.8	70-130			6.02		20	
trans-1,3-Dichloropropylene	7.98		"	10.0		79.8	70-130			0.998		20	
Trichloroethylene	7.73		"	10.0		77.3	70-130			7.47		20	
Trichlorofluoromethane	9.56		"	10.0		95.6	40-160			1.04		20	
Vinyl Chloride	6.83		"	10.0		68.3	70-130	Low Bias		4.86		20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.8</i>		<i>"</i>	<i>10.0</i>		<i>108</i>	<i>70-130</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.47</i>		<i>"</i>	<i>10.0</i>		<i>94.7</i>	<i>70-130</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.88</i>		<i>"</i>	<i>10.0</i>		<i>98.8</i>	<i>70-130</i>						



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19B0057-01	WQ020119: 1230 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19B0057-02	WQ020119: 1235 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19B0057-03	WQ020119: 1240 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19B0057-04	WQ020119: 1245 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19B0057-05	WQ020119: 1250 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

### Definitions and Other Explanations

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

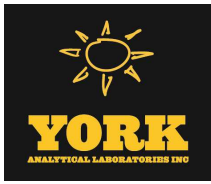
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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

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York Analytical Laboratories, Inc.  
 120 Research Drive  
 Stratford, CT 06615  
 clientservices@yorklab.com  
 www.yorklab.com

# Field Chain-of-Custody Record

YORK Project No.  
 19B0057

Page 1 of 1

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

<b>YOUR INFORMATION</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company:	WSP USA	Company:	Same	Company:	Same	31401451.000		RUSH - Next Day	
Address:	4 Research Dr. Ste 204	Address:		Address:		task 01.00		RUSH - Two Day	
Phone:	Shelton CT 06484	Phone:		Phone:		YOUR Project Name		RUSH - Three Day	
Contact:	203 729-8555	Contact:		Contact:		31401451.000		RUSH - Four Day	
E-mail:	Tunde Saudar	E-mail:		E-mail:		task 01.00		Standard (5-7 Day)	
Tunde.Saudar@wsp.com		YOUR PO#:							

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

*Evan Foster*  
 Samples Collected by: (print your name above and sign below)

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

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ020119-1230 FRU-1	GW	2-19 1230	VOC's 8266 Full List + Fran 113	300a
WQ020119-1235 FRU-2		1235		
WQ020119-1240 FRU-3		1240		
WQ020119-1245 FRU-4		1245		
WQ020119-1250 NPI-1-2		1250		

**Comments:**

Preservation: (check all that apply)  
 HCl  MeOH  HNO3  H2SO4  NaOH  ZnAc

Ascorbic Acid  Other:

Samples Relinquished by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Received by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Relinquished by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Received by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Relinquished by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Received by / Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Temp. Received at Lab: 4.5 Degrees C