

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>
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
1-Mar-19	6.9	142	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	6.31	ND<0.278
2-Apr-19	6.9	153	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	1.27	ND<0.278
6-May-19	6.9	175	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	0.374	ND<0.278
4-Jun-19	6.0	139	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	0.620	ND<0.278
2-Jul-19	6.0	145	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	1.82 C,Q,B	ND<0.5	0.766	ND<0.278
1-Aug-19	6.8	168	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	1.30	1.24
5-Sep-19	6.8	172	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	0.291	ND<0.278
3-Oct-19	6.5	165	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	0.612	ND<0.278
4-Nov-19	6.0	102	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	0.536	ND<0.278
5-Dec-19	6.8	129	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	NA	NA
7-Jan-20	6.8	175	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	NA	NA

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

C = CCV-E: The value reported is estimated The value is estimated due to its behavior during continuing calibration verification.

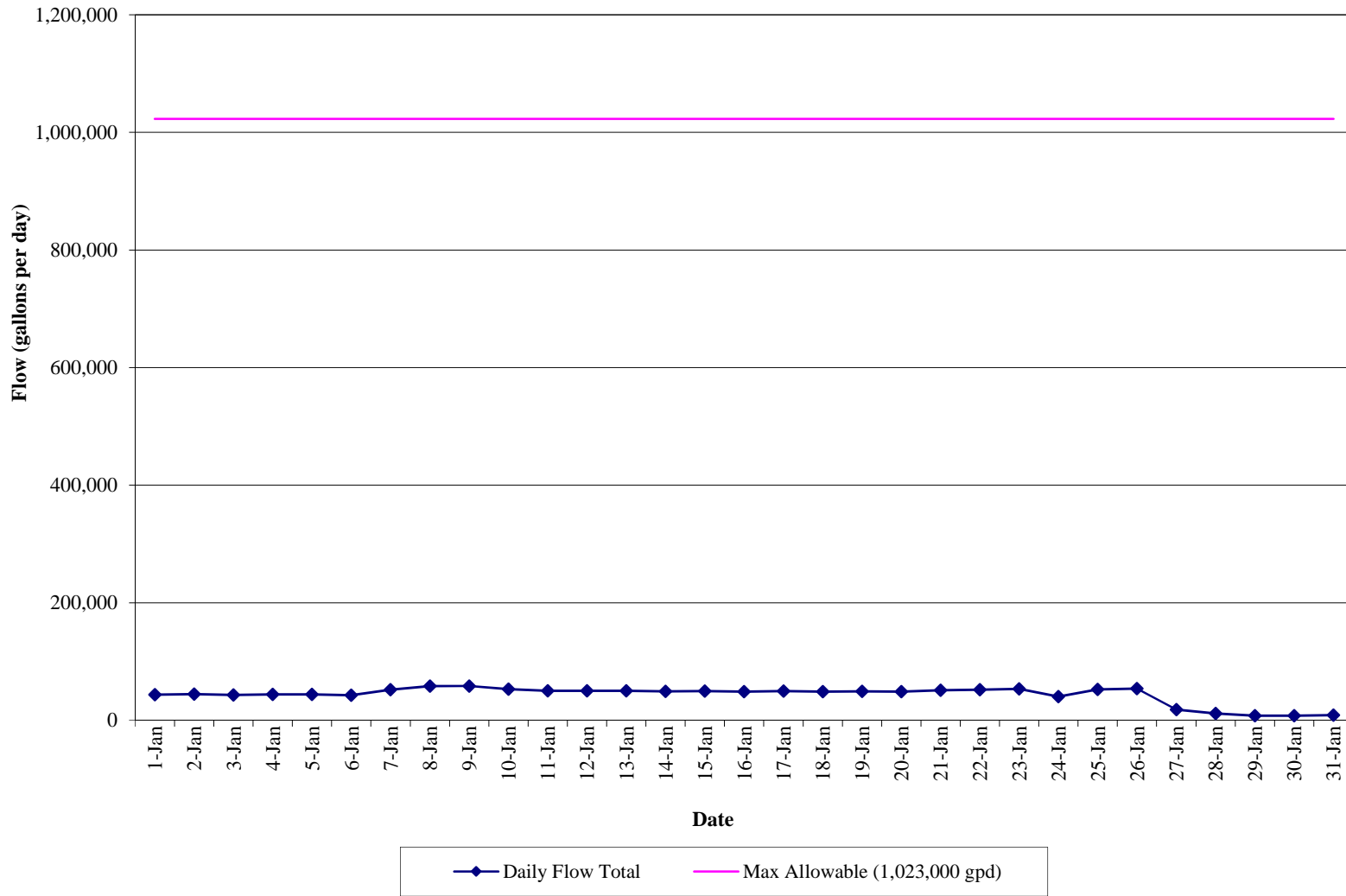
Q = QL-02: This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

## Notes:

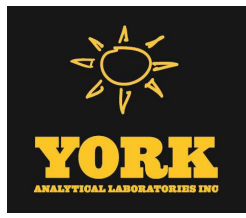
- Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The effluent pH was 7.0 on January 21, 2020. Historic pH measurements from recovery wells indicate that natural background pH concentrations are less than 6.5.
- "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
- 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.

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

**Effluent Flow Data**  
**(January 1, 2020 to January 31, 2020)**



**APPENDIX I**  
**JANUARY 2020 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: 01/13/2020  
**Client Project ID: 31401451.000 Task 01.00**  
York Project (SDG) No.: 20A0182

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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Report Date: 01/13/2020  
Client Project ID: 31401451.000 Task 01.00  
York Project (SDG) No.: 20A0182

**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 January 07, 2020 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>
20A0182-01	WQ010720: 1015 NP2-6	Water	01/07/2020	01/07/2020
20A0182-02	WQ010720: 1025 NP2-10	Water	01/07/2020	01/07/2020

## **General Notes for York Project (SDG) No.: 20A0182**

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:** 01/13/2020





### Sample Information

**Client Sample ID:** WQ010720: 1015 NP2-6

**York Sample ID:** 20A0182-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0182	31401451.000 Task 01.00	Water	January 7, 2020 10:15 am	01/07/2020

**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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ



### Sample Information

**Client Sample ID:** WQ010720: 1015 NP2-6

**York Sample ID:** 20A0182-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0182

31401451.000 Task 01.00

Water

January 7, 2020 10:15 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 17:46	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.270</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ



### Sample Information

**Client Sample ID:** WQ010720: 1015 NP2-6

**York Sample ID:** 20A0182-01

York Project (SDG) No.

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31401451.000 Task 01.00

Water

January 7, 2020 10:15 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>6.73</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
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	01/08/2020 06:35	01/09/2020 17:46	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.390</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 17:46	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	103 %			69-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	95.2 %			81-117						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	91.2 %			79-122						



### Sample Information

**Client Sample ID:** WQ010720: 1025 NP2-10

**York Sample ID:** 20A0182-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0182

31401451.000 Task 01.00

Water

January 7, 2020 10:25 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ



### Sample Information

**Client Sample ID:** WQ010720: 1025 NP2-10

**York Sample ID:** 20A0182-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0182

31401451.000 Task 01.00

Water

January 7, 2020 10:25 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:13	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ



### Sample Information

**Client Sample ID:** WQ010720: 1025 NP2-10

**York Sample ID:** 20A0182-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0182

31401451.000 Task 01.00

Water

January 7, 2020 10:25 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:13	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
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	01/08/2020 06:35	01/09/2020 18:13	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 18:13	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.3 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.6 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	91.9 %			79-122						

**Total Dissolved Solids**

**Log-in Notes:**

**Sample Notes:**



Sample Information

Client Sample ID: WQ010720: 1025 NP2-10

York Sample ID: 20A0182-02

York Project (SDG) No. 20A0182

Client Project ID 31401451.000 Task 01.00

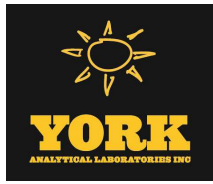
Matrix Water

Collection Date/Time January 7, 2020 10:25 am

Date Received 01/07/2020

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
	<b>Total Dissolved Solids</b>	<b>175</b>		mg/L	10.0	1	SM 2540C	01/08/2020 19:25	01/09/2020 23:40	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



## Analytical Batch Summary

**Batch ID:** BA00146

**Preparation Method:** EPA 5030B

**Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20A0182-01	WQ010720: 1015 NP2-6	01/08/20
20A0182-02	WQ010720: 1025 NP2-10	01/08/20
BA00146-BLK1	Blank	01/09/20
BA00146-BS1	LCS	01/09/20
BA00146-BSD1	LCS Dup	01/09/20

**Batch ID:** BA00310

**Preparation Method:** % Solids Prep

**Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20A0182-02	WQ010720: 1025 NP2-10	01/08/20
BA00310-BLK1	Blank	01/08/20



**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 BA00146 - EPA 5030B**

**Blank (BA00146-BLK1)**

Prepared & Analyzed: 01/09/2020

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	"								



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

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
<b>Batch BA00146 - EPA 5030B</b>											
<b>Blank (BA00146-BLK1)</b>										Prepared & Analyzed: 01/09/2020	
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
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>	9.98		"	10.0		99.8	69-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.65		"	10.0		96.5	81-117				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.47		"	10.0		94.7	79-122				
<b>LCS (BA00146-BS1)</b>										Prepared & Analyzed: 01/09/2020	
1,1,1,2-Tetrachloroethane	11.5		ug/L	10.0		115	82-126				
1,1,1-Trichloroethane	11.7		"	10.0		117	78-136				
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.7		"	10.0		137	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	11.4		"	10.0		114	68-138				
1,1-Dichloropropylene	11.3		"	10.0		113	83-133				
1,2,3-Trichlorobenzene	8.98		"	10.0		89.8	76-136				
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128				
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137				
1,2,4-Trimethylbenzene	11.5		"	10.0		115	82-132				
1,2-Dibromo-3-chloropropane	9.48		"	10.0		94.8	45-147				
1,2-Dibromoethane	10.7		"	10.0		107	83-124				
1,2-Dichlorobenzene	11.5		"	10.0		115	79-123				
1,2-Dichloroethane	11.0		"	10.0		110	73-132				
1,2-Dichloropropane	10.0		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131				
1,3-Dichlorobenzene	11.4		"	10.0		114	86-122				
1,3-Dichloropropane	10.5		"	10.0		105	81-125				
1,4-Dichlorobenzene	11.3		"	10.0		113	85-124				
2,2-Dichloropropane	10.2		"	10.0		102	56-150				
2-Chlorotoluene	10.7		"	10.0		107	79-130				
2-Hexanone	8.81		"	10.0		88.1	51-146				
4-Chlorotoluene	10.8		"	10.0		108	79-128				
Acetone	8.47		"	10.0		84.7	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	10.4		"	10.0		104	78-129				
Bromochloromethane	9.45		"	10.0		94.5	77-128				
Bromodichloromethane	10.4		"	10.0		104	79-128				



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 BA00146 - EPA 5030B

LCS (BA00146-BS1)

Prepared & Analyzed: 01/09/2020

Bromoform	10.8		ug/L	10.0		108	78-133				
Bromomethane	3.14		"	10.0		31.4	43-168	Low Bias			
Carbon tetrachloride	11.2		"	10.0		112	77-141				
Chlorobenzene	10.9		"	10.0		109	88-120				
Chloroethane	7.60		"	10.0		76.0	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	3.31		"	10.0		33.1	43-155	Low Bias			
cis-1,2-Dichloroethylene	10.9		"	10.0		109	83-129				
cis-1,3-Dichloropropylene	9.69		"	10.0		96.9	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.8		"	10.0		108	72-134				
Dichlorodifluoromethane	12.0		"	10.0		120	44-144				
Ethyl Benzene	10.8		"	10.0		108	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	10.8		"	10.0		108	76-140				
Methyl tert-butyl ether (MTBE)	10.8		"	10.0		108	76-135				
Methylene chloride	9.69		"	10.0		96.9	55-137				
Naphthalene	9.36		"	10.0		93.6	70-147				
n-Butylbenzene	11.0		"	10.0		110	79-132				
n-Propylbenzene	10.6		"	10.0		106	78-133				
o-Xylene	10.7		"	10.0		107	78-130				
p- & m- Xylenes	21.8		"	20.0		109	77-133				
p-Isopropyltoluene	11.5		"	10.0		115	81-136				
sec-Butylbenzene	11.3		"	10.0		113	79-137				
Styrene	11.6		"	10.0		116	67-132				
tert-Butylbenzene	9.66		"	10.0		96.6	77-138				
Tetrachloroethylene	10.1		"	10.0		101	82-131				
Toluene	10.5		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	11.6		"	10.0		116	80-132				
trans-1,3-Dichloropropylene	9.66		"	10.0		96.6	78-131				
Trichloroethylene	10.7		"	10.0		107	82-128				
Trichlorofluoromethane	13.0		"	10.0		130	67-139				
Vinyl Chloride	6.82		"	10.0		68.2	58-145				
Surrogate: Surr: 1,2-Dichloroethane-d4	9.75		"	10.0		97.5	69-130				
Surrogate: Surr: Toluene-d8	9.63		"	10.0		96.3	81-117				
Surrogate: Surr: p-Bromofluorobenzene	9.35		"	10.0		93.5	79-122				



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 BA00146 - EPA 5030B</b>											
<b>LCS Dup (BA00146-BSD1)</b>											
Prepared & Analyzed: 01/09/2020											
1,1,1,2-Tetrachloroethane	11.5		ug/L	10.0		115	82-126		0.261	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136		7.19	30	
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129		0.00	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8		"	10.0		128	54-165		6.34	30	
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123		5.04	30	
1,1-Dichloroethane	9.88		"	10.0		98.8	82-129		8.06	30	
1,1-Dichloroethylene	10.7		"	10.0		107	68-138		6.77	30	
1,1-Dichloropropylene	10.5		"	10.0		105	83-133		7.90	30	
1,2,3-Trichlorobenzene	9.43		"	10.0		94.3	76-136		4.89	30	
1,2,3-Trichloropropane	11.6		"	10.0		116	77-128		1.04	30	
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137		0.197	30	
1,2,4-Trimethylbenzene	10.9		"	10.0		109	82-132		5.28	30	
1,2-Dibromo-3-chloropropane	9.41		"	10.0		94.1	45-147		0.741	30	
1,2-Dibromoethane	11.0		"	10.0		110	83-124		3.13	30	
1,2-Dichlorobenzene	11.1		"	10.0		111	79-123		3.28	30	
1,2-Dichloroethane	10.6		"	10.0		106	73-132		3.90	30	
1,2-Dichloropropane	9.71		"	10.0		97.1	78-126		3.24	30	
1,3,5-Trimethylbenzene	10.8		"	10.0		108	80-131		2.20	30	
1,3-Dichlorobenzene	11.0		"	10.0		110	86-122		3.92	30	
1,3-Dichloropropane	11.1		"	10.0		111	81-125		5.27	30	
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124		3.15	30	
2,2-Dichloropropane	9.74		"	10.0		97.4	56-150		4.71	30	
2-Chlorotoluene	9.90		"	10.0		99.0	79-130		7.86	30	
2-Hexanone	8.99		"	10.0		89.9	51-146		2.02	30	
4-Chlorotoluene	10.3		"	10.0		103	79-128		4.81	30	
Acetone	8.16		"	10.0		81.6	14-150		3.73	30	
Benzene	10.6		"	10.0		106	85-126		3.25	30	
Bromobenzene	10.0		"	10.0		100	78-129		4.31	30	
Bromochloromethane	9.17		"	10.0		91.7	77-128		3.01	30	
Bromodichloromethane	10.5		"	10.0		105	79-128		0.768	30	
Bromoform	10.7		"	10.0		107	78-133		0.930	30	
Bromomethane	3.07		"	10.0		30.7	43-168	Low Bias	2.25	30	
Carbon tetrachloride	10.7		"	10.0		107	77-141		4.11	30	
Chlorobenzene	10.9		"	10.0		109	88-120		0.275	30	
Chloroethane	6.96		"	10.0		69.6	65-136		8.79	30	
Chloroform	10.7		"	10.0		107	82-128		4.56	30	
Chloromethane	3.54		"	10.0		35.4	43-155	Low Bias	6.72	30	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129		8.29	30	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		5.81	30	
Dibromochloromethane	11.1		"	10.0		111	80-130		4.51	30	
Dibromomethane	11.1		"	10.0		111	72-134		3.02	30	
Dichlorodifluoromethane	11.1		"	10.0		111	44-144		7.35	30	
Ethyl Benzene	10.7		"	10.0		107	80-131		1.49	30	
Hexachlorobutadiene	10.8		"	10.0		108	67-146		2.53	30	
Isopropylbenzene	10.0		"	10.0		100	76-140		7.59	30	
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-135		0.736	30	
Methylene chloride	9.29		"	10.0		92.9	55-137		4.21	30	
Naphthalene	9.73		"	10.0		97.3	70-147		3.88	30	
n-Butylbenzene	10.4		"	10.0		104	79-132		5.34	30	
n-Propylbenzene	10.0		"	10.0		100	78-133		5.34	30	



**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 BA00146 - EPA 5030B**

**LCS Dup (BA00146-BSD1)**

Prepared & Analyzed: 01/09/2020

o-Xylene	10.7		ug/L	10.0		107	78-130		0.187	30	
p- & m- Xylenes	21.0		"	20.0		105	77-133		3.69	30	
p-Isopropyltoluene	11.0		"	10.0		110	81-136		4.89	30	
sec-Butylbenzene	10.9		"	10.0		109	79-137		4.24	30	
Styrene	11.4		"	10.0		114	67-132		2.44	30	
tert-Butylbenzene	9.27		"	10.0		92.7	77-138		4.12	30	
Tetrachloroethylene	9.95		"	10.0		99.5	82-131		1.89	30	
Toluene	10.4		"	10.0		104	80-127		0.766	30	
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132		7.70	30	
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131		2.66	30	
Trichloroethylene	10.4		"	10.0		104	82-128		3.51	30	
Trichlorofluoromethane	12.2		"	10.0		122	67-139		6.34	30	
Vinyl Chloride	6.61		"	10.0		66.1	58-145		3.13	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.93</i>		<i>"</i>	<i>10.0</i>		<i>99.3</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.57</i>		<i>"</i>	<i>10.0</i>		<i>95.7</i>	<i>79-122</i>				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

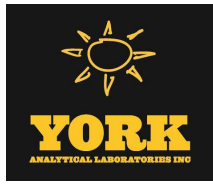
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BA00310 - % Solids Prep**

**Blank (BA00310-BLK1)**

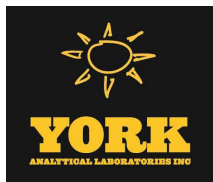
Prepared: 01/08/2020 Analyzed: 01/09/2020

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

Lab ID	Client Sample ID	Volatile Sample Container
20A0182-01	WQ010720: 1015 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20A0182-02	WQ010720: 1025 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.
- 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.

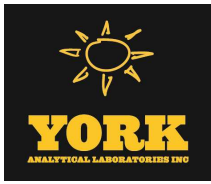
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

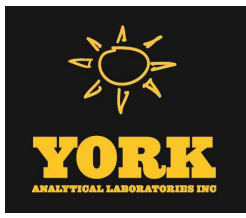
YORK Project No.  
 20A0182

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

Page 1 of 1

YOUR INFORMATION		REPORT TO:		INVOICE TO:		YOUR PROJECT NUMBER		TURN-AROUND TIME	
Company:	WSP USA	Company:	Same	Company:	WSP USA Accounting	31401451.000 Task 01.00		RUSH - Next Day	
Address:	4 Research Drive, Suite 204 Shelton, CT 06484	Address:		Address:				RUSH - Two Day	
Phone:	203-929-8555	Phone:		Phone:				RUSH - Three Day	
Contact:	Tunde Komuves-Sandor	Contact:		Contact:				RUSH - Four Day	
E-mail:	tunde.sandor@wsp.com	E-mail:		E-mail:				Standard (5-7 Day) X	
<p><b>Matrix Codes</b></p> <p>S - soil / solid            GW - groundwater            DW - drinking water            WW - wastewater            O - Oil ; Other</p>									
<p><b>Report / EDD Type (circle selections)</b></p> <p>Summary Report <input checked="" type="checkbox"/>    CT RCP <input type="checkbox"/>    Standard Excel EDD <input type="checkbox"/>            QA Report <input type="checkbox"/>    CT RCP DQA/DUE <input type="checkbox"/>    EQUIS (Standard) <input type="checkbox"/>            NY ASP A Package <input type="checkbox"/>    NJDEP Reduced Deliverables <input type="checkbox"/>    NYSDEC EQUIS <input type="checkbox"/>            NY ASP B Package <input checked="" type="checkbox"/>    NJDEP SRP HazSite <input type="checkbox"/>    Other: <input type="checkbox"/></p>									
<p><b>YORK Reg. Comp.</b></p> <p>Compared to the following Regulation(s): (please fill in)</p>									
<p><b>Analysis Requested</b></p> <p>VOCs 8260 full list + freon 113            VOCs 8260 full list + freon 113; TDS</p>									
<p><b>Container Description</b></p> <p>3 HCl VOA            3 HCl VOA: 1 plastic</p>									
<p><b>Sample Identification</b></p> <p>WQ010720:1015 NP2-6            WQ010720:1025 NP2-10</p>									
<p><b>Matrix Matrix</b></p> <p>GW            GW</p>									
<p><b>Date/Time Sampled</b></p> <p>1-7-20 10:15            1-7-20 10:25</p>									
<p><b>Samples From</b></p> <p>New York <input checked="" type="checkbox"/>            New Jersey            Connecticut            Pennsylvania            Other</p>									
<p><b>Preservation: (check all that apply)</b></p> <p>HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___            Ascorbic Acid ___ Other: <u>cold</u></p>									
<p><b>Comments:</b></p> <p>Sam Florig / WSP            1-7-20 1442            Tunde Komuves-Sandor 1/7/20 1442            1.9 Degrees C</p>									

**APPENDIX II**  
**JANUARY 2020 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: 01/13/2020  
**Client Project ID: 31401451.000 Task 01.00**  
York Project (SDG) No.: 20A0183

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)

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(203) 325-1371

132-02 89th AVENUE  
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RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 01/13/2020  
Client Project ID: 31401451.000 Task 01.00  
York Project (SDG) No.: 20A0183

**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 January 07, 2020 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>
20A0183-01	WQ010720:0945 FRW-1	Water	01/07/2020	01/07/2020
20A0183-02	WQ010720:0950 FRW-2	Water	01/07/2020	01/07/2020
20A0183-03	WQ010720:0955 FRW-3	Water	01/07/2020	01/07/2020
20A0183-04	WQ010720:1000 FRW-4	Water	01/07/2020	01/07/2020
20A0183-05	WQ010720:1035 NP1-1-2	Water	01/07/2020	01/07/2020

## **General Notes for York Project (SDG) No.: 20A0183**

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:** 01/13/2020





### Sample Information

**Client Sample ID:** WQ010720:0945 FRW-1

**York Sample ID:** 20A0183-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0183	31401451.000 Task 01.00	Water	January 7, 2020 9:45 am	01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0945 FRW-1

**York Sample ID:** 20A0183-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:45 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:39	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0945 FRW-1

**York Sample ID:** 20A0183-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:45 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>78.0</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
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	01/08/2020 06:35	01/09/2020 18:39	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.620</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 18:39	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	101 %	69-130								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	97.4 %	81-117								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	92.0 %	79-122								



### Sample Information

**Client Sample ID:** WQ010720:0950 FRW-2

**York Sample ID:** 20A0183-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:50 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0950 FRW-2

**York Sample ID:** 20A0183-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:50 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:06	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.16</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0950 FRW-2

**York Sample ID:** 20A0183-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:50 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:06	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>3.92</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
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	01/08/2020 06:35	01/09/2020 19:06	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.710</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 19:06	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.0 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	93.8 %			79-122						



### Sample Information

**Client Sample ID:** WQ010720:0955 FRW-3

**York Sample ID:** 20A0183-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:55 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:33	LLJ
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.300</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0955 FRW-3

**York Sample ID:** 20A0183-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:55 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:33	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
67-64-1	<b>Acetone</b>	<b>1.28</b>		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>4.68</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ



### Sample Information

**Client Sample ID:** WQ010720:0955 FRW-3

**York Sample ID:** 20A0183-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 9:55 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 19:33	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>55.7</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
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	01/08/2020 06:35	01/09/2020 19:33	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>2.27</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 19:33	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	98.8 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	92.7 %			79-122						



### Sample Information

**Client Sample ID:** WQ010720:1000 FRW-4

**York Sample ID:** 20A0183-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 10:00 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ



### Sample Information

**Client Sample ID:** WQ010720:1000 FRW-4

**York Sample ID:** 20A0183-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 10:00 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:00	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
67-64-1	<b>Acetone</b>	<b>1.10</b>		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ



### Sample Information

**Client Sample ID:** WQ010720:1000 FRW-4

**York Sample ID:** 20A0183-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

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Water

January 7, 2020 10:00 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:00	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>1.41</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
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	01/08/2020 06:35	01/09/2020 20:00	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 20:00	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	101 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	93.8 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	93.1 %	79-122								



### Sample Information

**Client Sample ID:** WQ010720:1035 NP1-1-2

**York Sample ID:** 20A0183-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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20A0183

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Water

January 7, 2020 10:35 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ



### Sample Information

**Client Sample ID:** WQ010720:1035 NP1-1-2

**York Sample ID:** 20A0183-05

York Project (SDG) No.

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Matrix

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Water

January 7, 2020 10:35 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:27	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ



### Sample Information

**Client Sample ID:** WQ010720:1035 NP1-1-2

**York Sample ID:** 20A0183-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0183

31401451.000 Task 01.00

Water

January 7, 2020 10:35 am

01/07/2020

**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	01/08/2020 06:35	01/09/2020 20:27	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>0.250</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
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	01/08/2020 06:35	01/09/2020 20:27	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.380</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	01/08/2020 06:35	01/09/2020 20:27	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.3 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.8 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.6 %			79-122						



## Analytical Batch Summary

**Batch ID:** BA00146

**Preparation Method:** EPA 5030B

**Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20A0183-01	WQ010720:0945 FRW-1	01/08/20
20A0183-02	WQ010720:0950 FRW-2	01/08/20
20A0183-03	WQ010720:0955 FRW-3	01/08/20
20A0183-04	WQ010720:1000 FRW-4	01/08/20
20A0183-05	WQ010720:1035 NP1-1-2	01/08/20
BA00146-BLK1	Blank	01/09/20
BA00146-BS1	LCS	01/09/20
BA00146-BSD1	LCS Dup	01/09/20



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

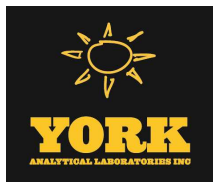
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BA00146 - EPA 5030B**

**Blank (BA00146-BLK1)**

Prepared & Analyzed: 01/09/2020

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	"								



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 BA00146 - EPA 5030B</b>											
<b>Blank (BA00146-BLK1)</b>											
										Prepared & Analyzed: 01/09/2020	
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
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>	9.98		"	10.0		99.8	69-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.65		"	10.0		96.5	81-117				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.47		"	10.0		94.7	79-122				
<b>LCS (BA00146-BS1)</b>											
										Prepared & Analyzed: 01/09/2020	
1,1,1,2-Tetrachloroethane	11.5		ug/L	10.0		115	82-126				
1,1,1-Trichloroethane	11.7		"	10.0		117	78-136				
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.7		"	10.0		137	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	11.4		"	10.0		114	68-138				
1,1-Dichloropropylene	11.3		"	10.0		113	83-133				
1,2,3-Trichlorobenzene	8.98		"	10.0		89.8	76-136				
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128				
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137				
1,2,4-Trimethylbenzene	11.5		"	10.0		115	82-132				
1,2-Dibromo-3-chloropropane	9.48		"	10.0		94.8	45-147				
1,2-Dibromoethane	10.7		"	10.0		107	83-124				
1,2-Dichlorobenzene	11.5		"	10.0		115	79-123				
1,2-Dichloroethane	11.0		"	10.0		110	73-132				
1,2-Dichloropropane	10.0		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131				
1,3-Dichlorobenzene	11.4		"	10.0		114	86-122				
1,3-Dichloropropane	10.5		"	10.0		105	81-125				
1,4-Dichlorobenzene	11.3		"	10.0		113	85-124				
2,2-Dichloropropane	10.2		"	10.0		102	56-150				
2-Chlorotoluene	10.7		"	10.0		107	79-130				
2-Hexanone	8.81		"	10.0		88.1	51-146				
4-Chlorotoluene	10.8		"	10.0		108	79-128				
Acetone	8.47		"	10.0		84.7	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	10.4		"	10.0		104	78-129				
Bromochloromethane	9.45		"	10.0		94.5	77-128				
Bromodichloromethane	10.4		"	10.0		104	79-128				



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 BA00146 - EPA 5030B

LCS (BA00146-BS1)

Prepared & Analyzed: 01/09/2020

Bromoform	10.8		ug/L	10.0		108	78-133				
Bromomethane	3.14		"	10.0		31.4	43-168	Low Bias			
Carbon tetrachloride	11.2		"	10.0		112	77-141				
Chlorobenzene	10.9		"	10.0		109	88-120				
Chloroethane	7.60		"	10.0		76.0	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	3.31		"	10.0		33.1	43-155	Low Bias			
cis-1,2-Dichloroethylene	10.9		"	10.0		109	83-129				
cis-1,3-Dichloropropylene	9.69		"	10.0		96.9	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.8		"	10.0		108	72-134				
Dichlorodifluoromethane	12.0		"	10.0		120	44-144				
Ethyl Benzene	10.8		"	10.0		108	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	10.8		"	10.0		108	76-140				
Methyl tert-butyl ether (MTBE)	10.8		"	10.0		108	76-135				
Methylene chloride	9.69		"	10.0		96.9	55-137				
Naphthalene	9.36		"	10.0		93.6	70-147				
n-Butylbenzene	11.0		"	10.0		110	79-132				
n-Propylbenzene	10.6		"	10.0		106	78-133				
o-Xylene	10.7		"	10.0		107	78-130				
p- & m- Xylenes	21.8		"	20.0		109	77-133				
p-Isopropyltoluene	11.5		"	10.0		115	81-136				
sec-Butylbenzene	11.3		"	10.0		113	79-137				
Styrene	11.6		"	10.0		116	67-132				
tert-Butylbenzene	9.66		"	10.0		96.6	77-138				
Tetrachloroethylene	10.1		"	10.0		101	82-131				
Toluene	10.5		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	11.6		"	10.0		116	80-132				
trans-1,3-Dichloropropylene	9.66		"	10.0		96.6	78-131				
Trichloroethylene	10.7		"	10.0		107	82-128				
Trichlorofluoromethane	13.0		"	10.0		130	67-139				
Vinyl Chloride	6.82		"	10.0		68.2	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.75		"	10.0		97.5	69-130				
Surrogate: SURR: Toluene-d8	9.63		"	10.0		96.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.35		"	10.0		93.5	79-122				



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 BA00146 - EPA 5030B</b>											
<b>LCS Dup (BA00146-BSD1)</b>											
Prepared & Analyzed: 01/09/2020											
1,1,1,2-Tetrachloroethane	11.5		ug/L	10.0		115	82-126		0.261	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136		7.19	30	
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129		0.00	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8		"	10.0		128	54-165		6.34	30	
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123		5.04	30	
1,1-Dichloroethane	9.88		"	10.0		98.8	82-129		8.06	30	
1,1-Dichloroethylene	10.7		"	10.0		107	68-138		6.77	30	
1,1-Dichloropropylene	10.5		"	10.0		105	83-133		7.90	30	
1,2,3-Trichlorobenzene	9.43		"	10.0		94.3	76-136		4.89	30	
1,2,3-Trichloropropane	11.6		"	10.0		116	77-128		1.04	30	
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137		0.197	30	
1,2,4-Trimethylbenzene	10.9		"	10.0		109	82-132		5.28	30	
1,2-Dibromo-3-chloropropane	9.41		"	10.0		94.1	45-147		0.741	30	
1,2-Dibromoethane	11.0		"	10.0		110	83-124		3.13	30	
1,2-Dichlorobenzene	11.1		"	10.0		111	79-123		3.28	30	
1,2-Dichloroethane	10.6		"	10.0		106	73-132		3.90	30	
1,2-Dichloropropane	9.71		"	10.0		97.1	78-126		3.24	30	
1,3,5-Trimethylbenzene	10.8		"	10.0		108	80-131		2.20	30	
1,3-Dichlorobenzene	11.0		"	10.0		110	86-122		3.92	30	
1,3-Dichloropropane	11.1		"	10.0		111	81-125		5.27	30	
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124		3.15	30	
2,2-Dichloropropane	9.74		"	10.0		97.4	56-150		4.71	30	
2-Chlorotoluene	9.90		"	10.0		99.0	79-130		7.86	30	
2-Hexanone	8.99		"	10.0		89.9	51-146		2.02	30	
4-Chlorotoluene	10.3		"	10.0		103	79-128		4.81	30	
Acetone	8.16		"	10.0		81.6	14-150		3.73	30	
Benzene	10.6		"	10.0		106	85-126		3.25	30	
Bromobenzene	10.0		"	10.0		100	78-129		4.31	30	
Bromochloromethane	9.17		"	10.0		91.7	77-128		3.01	30	
Bromodichloromethane	10.5		"	10.0		105	79-128		0.768	30	
Bromoform	10.7		"	10.0		107	78-133		0.930	30	
Bromomethane	3.07		"	10.0		30.7	43-168	Low Bias	2.25	30	
Carbon tetrachloride	10.7		"	10.0		107	77-141		4.11	30	
Chlorobenzene	10.9		"	10.0		109	88-120		0.275	30	
Chloroethane	6.96		"	10.0		69.6	65-136		8.79	30	
Chloroform	10.7		"	10.0		107	82-128		4.56	30	
Chloromethane	3.54		"	10.0		35.4	43-155	Low Bias	6.72	30	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129		8.29	30	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		5.81	30	
Dibromochloromethane	11.1		"	10.0		111	80-130		4.51	30	
Dibromomethane	11.1		"	10.0		111	72-134		3.02	30	
Dichlorodifluoromethane	11.1		"	10.0		111	44-144		7.35	30	
Ethyl Benzene	10.7		"	10.0		107	80-131		1.49	30	
Hexachlorobutadiene	10.8		"	10.0		108	67-146		2.53	30	
Isopropylbenzene	10.0		"	10.0		100	76-140		7.59	30	
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-135		0.736	30	
Methylene chloride	9.29		"	10.0		92.9	55-137		4.21	30	
Naphthalene	9.73		"	10.0		97.3	70-147		3.88	30	
n-Butylbenzene	10.4		"	10.0		104	79-132		5.34	30	
n-Propylbenzene	10.0		"	10.0		100	78-133		5.34	30	



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

**York Analytical Laboratories, Inc.**

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

**Batch BA00146 - EPA 5030B**

**LCS Dup (BA00146-BSD1)**

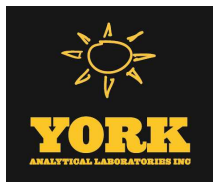
Prepared & Analyzed: 01/09/2020

o-Xylene	10.7		ug/L	10.0		107	78-130		0.187	30
p- & m- Xylenes	21.0		"	20.0		105	77-133		3.69	30
p-Isopropyltoluene	11.0		"	10.0		110	81-136		4.89	30
sec-Butylbenzene	10.9		"	10.0		109	79-137		4.24	30
Styrene	11.4		"	10.0		114	67-132		2.44	30
tert-Butylbenzene	9.27		"	10.0		92.7	77-138		4.12	30
Tetrachloroethylene	9.95		"	10.0		99.5	82-131		1.89	30
Toluene	10.4		"	10.0		104	80-127		0.766	30
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132		7.70	30
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131		2.66	30
Trichloroethylene	10.4		"	10.0		104	82-128		3.51	30
Trichlorofluoromethane	12.2		"	10.0		122	67-139		6.34	30
Vinyl Chloride	6.61		"	10.0		66.1	58-145		3.13	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>69-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.93</i>		<i>"</i>	<i>10.0</i>		<i>99.3</i>	<i>81-117</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.57</i>		<i>"</i>	<i>10.0</i>		<i>95.7</i>	<i>79-122</i>			



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20A0183-01	WQ010720:0945 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20A0183-02	WQ010720:0950 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20A0183-03	WQ010720:0955 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20A0183-04	WQ010720:1000 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20A0183-05	WQ010720:1035 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.

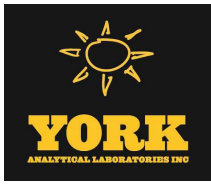
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.  
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 Stratford, CT 06615  
 clientservices@yorklab.com  
 www.yorklab.com



# Field Chain-of-Custody Record

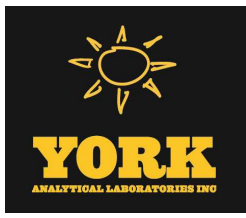
YORK Project No.  
 20A0183

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.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time			
Company: WSP USA	Address: 4 Research Drive, Suite 204 Shelton, CT 06484	Company: Same	Address:	Company: WSP USA Accounting	Address:	31401451.000	Task 01.00	RUSH - Next Day			
Phone: 203-929-8555	Contact: Tunde Komuves-Sandor	Phone:	Contact:	Phone:	Contact:			RUSH - Two Day			
E-mail: tunde.sandor@wsp.com		E-mail:		E-mail:				RUSH - Three Day			
<p><b>Matrix Codes</b></p> <p>S - soil / solid            GW - groundwater            DW - drinking water            WW - wastewater            O - Oil ; Other</p>		<p><b>Matrix Codes</b></p> <p>S - soil / solid            GW - groundwater            DW - drinking water            WW - wastewater            O - Oil ; Other</p>		<p><b>Samples From</b></p> <p>New York <input checked="" type="checkbox"/>            New Jersey            Connecticut            Pennsylvania            Other</p>		<p><b>Report / EDD Type (circle selections)</b></p> <p>Summary Report <input checked="" type="checkbox"/>            QA Report <input checked="" type="checkbox"/>            NY ASP A Package            NY ASP B Package</p>		<p><b>YORK Reg. Comp.</b></p> <p>Compared to the following Regulation(s): (please fill in)</p> <p>CT RCP <input checked="" type="checkbox"/> Standard Excel EDD            CT RCP DQA/DUE <input type="checkbox"/> EQUIS (Standard)            NJDEP Reduced Deliverables <input type="checkbox"/> NYSDEC EQUIS            NJDEP SRP HazSite <input type="checkbox"/>            NJDKQP <input type="checkbox"/> Other:</p>		<p><b>Container Description</b></p> <p>3 HCIVOA</p>	
<p><b>Sample Identification</b></p> <p>WQ010720:0945 FRW-1            WQ010720:0950 FRW-2            WQ010720:0955 FRW-3            WQ010720:1000 FRW-4            WQ010720:1035 NPI-1-2</p>		<p><b>Sample Matrix</b></p> <p>GW            ↓            ↓            ↓            ↓</p>		<p><b>Date/Time Sampled</b></p> <p>1-7-20: 9:45            ↓ 9:50            ↓ 9:55            ↓ 10:00            ↓ 10:35</p>		<p><b>Analysis Requested</b></p> <p>VOCs 8260 full list + freon 113</p>		<p><b>Special Instruction</b></p> <p>Field Filtered            Lab to Filter</p>		<p><b>Temp. Received at Lab</b></p> <p>1.9            Degrees C</p>	
<p><b>Comments:</b></p> <p>Sato            Sato            Sato            Sato</p>		<p>Samples Relinquished by / Company</p> <p>1-7-20/497</p>		<p>Samples Relinquished by / Company</p> <p>1-7-20/497</p>		<p>Samples Relinquished by / Company</p> <p>TC-Alpha 1/7/20 1447</p>		<p>Samples Relinquished by / Company</p>		<p>Samples Relinquished by / Company</p>	

**APPENDIX III**  
**JANUARY 2020 LABORATORY ANALYTICAL REPORT**  
**FOR AIR SAMPLES**



# Technical Report

prepared for:

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

Report Date: 01/27/2020  
**Client Project ID: 31401451.000 Task01.00**  
York Project (SDG) No.: 20A0763

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)

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

Report Date: 01/27/2020  
Client Project ID: 31401451.000 Task01.00  
York Project (SDG) No.: 20A0763

**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 January 21, 2020 and listed below. The project was identified as your project: **31401451.000 Task01.00**.

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>
20A0763-01	AQ012120 NP4-1	Vapor Extraction	01/21/2020	01/21/2020
20A0763-02	AQ012120 NP4-3	Vapor Extraction	01/21/2020	01/21/2020

## **General Notes for York Project (SDG) No.: 20A0763**

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:** 01/27/2020





### Sample Information

**Client Sample ID:** AQ012120 NP4-1

**York Sample ID:** 20A0763-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0763	31401451.000 Task01.00	Vapor Extraction	January 21, 2020 12:00 am	01/21/2020

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.89	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.85</b>		ug/m <sup>3</sup>	0.71	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.89	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.0	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.71	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.53	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.13	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.97	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.0	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.78	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.53	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.60	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.91	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.86	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.78	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.60	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.78	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.94	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
78-93-3	<b>2-Butanone</b>	<b>0.96</b>		ug/m <sup>3</sup>	0.38	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.1	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS



### Sample Information

**Client Sample ID:** AQ012120 NP4-1

**York Sample ID:** 20A0763-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0763

31401451.000 Task01.00

Vapor Extraction

January 21, 2020 12:00 am

01/21/2020

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.0	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.53	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
67-64-1	<b>Acetone</b>	<b>10</b>		ug/m <sup>3</sup>	0.62	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.28	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
71-43-2	<b>Benzene</b>	<b>0.46</b>		ug/m <sup>3</sup>	0.42	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.67	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.87	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.3	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.51	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.41	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.49</b>		ug/m <sup>3</sup>	0.20	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.60	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.34	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
67-66-3	<b>Chloroform</b>	<b>1.5</b>		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
74-87-3	<b>Chloromethane</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.27	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.13	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.59	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.45	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.1	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.9</b>		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.94	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.57	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.4	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS



### Sample Information

**Client Sample ID:** AQ012120 NP4-1

**York Sample ID:** 20A0763-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0763

31401451.000 Task01.00

Vapor Extraction

January 21, 2020 12:00 am

01/21/2020

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.53	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.47	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-09-2	<b>Methylene chloride</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.91	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.53	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
110-54-3	<b>n-Hexane</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.46	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.57	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.1	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.64	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.22	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.56	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
127-18-4	<b>Tetrachloroethylene</b>	<b>29</b>		ug/m <sup>3</sup>	0.88	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.77	1.303	EPA TO-15 Certifications:	01/24/2020 04:00	01/24/2020 23:46	AS
108-88-3	<b>Toluene</b>	<b>0.88</b>		ug/m <sup>3</sup>	0.49	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.52	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.59	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
79-01-6	<b>Trichloroethylene</b>	<b>3.6</b>		ug/m <sup>3</sup>	0.18	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.73	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.46	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.57	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
75-01-4	<b>Vinyl Chloride</b>	<b>0.13</b>		ug/m <sup>3</sup>	0.083	1.303	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/24/2020 23:46	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.3 %		70-130						



## Sample Information

**Client Sample ID:** AQ012120 NP4-3

**York Sample ID:** 20A0763-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0763

31401451.000 Task01.00

Vapor Extraction

January 21, 2020 12:00 am

01/21/2020

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.90	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.72	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.90	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.0	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.72	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.53	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.13	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.97	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.64	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.0	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.79	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.53	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.61	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.92	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.64	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.87	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.79	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.61	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.79	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.94	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
78-93-3	<b>2-Butanone</b>	<b>8.4</b>		ug/m <sup>3</sup>	0.39	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.1	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.1	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS



## Sample Information

**Client Sample ID:** AQ012120 NP4-3

**York Sample ID:** 20A0763-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0763

31401451.000 Task01.00

Vapor Extraction

January 21, 2020 12:00 am

01/21/2020

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.54	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
67-64-1	<b>Acetone</b>	<b>45</b>		ug/m <sup>3</sup>	0.62	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.28	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	0.42	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.68	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.88	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.4	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.51	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.41	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.33</b>		ug/m <sup>3</sup>	0.21	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.60	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.35	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.64	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
74-87-3	<b>Chloromethane</b>	<b>0.97</b>		ug/m <sup>3</sup>	0.27	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.13	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.60	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.45	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.1	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.65	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.94	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.57	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.4	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
67-63-0	<b>Isopropanol</b>	<b>0.68</b>		ug/m <sup>3</sup>	0.64	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS



### Sample Information

**Client Sample ID:** AQ012120 NP4-3

**York Sample ID:** 20A0763-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20A0763

31401451.000 Task01.00

Vapor Extraction

January 21, 2020 12:00 am

01/21/2020

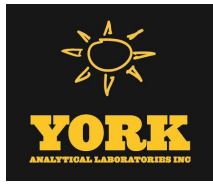
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes: TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.54	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.47	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-09-2	<b>Methylene chloride</b>	<b>2.7</b>		ug/m <sup>3</sup>	0.91	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.54	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
110-54-3	<b>n-Hexane</b>	<b>3.4</b>		ug/m <sup>3</sup>	0.46	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.57	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.1	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.64	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.23	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.56	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
127-18-4	Tetrachloroethylene	ND		ug/m <sup>3</sup>	0.89	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.77	1.311	EPA TO-15 Certifications:	01/24/2020 04:00	01/25/2020 00:38	AS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	0.49	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.52	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.60	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.74	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.46	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.57	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.084	1.311	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/24/2020 04:00	01/25/2020 00:38	AS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	96.3 %		70-130						



## Analytical Batch Summary

**Batch ID:** BA01137

**Preparation Method:** EPA TO15 PREP

**Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20A0763-01	AQ012120 NP4-1	01/24/20
20A0763-02	AQ012120 NP4-3	01/24/20
BA01137-BLK1	Blank	01/24/20
BA01137-BS1	LCS	01/24/20



Volatile Organic Compounds in Air 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 BA01137 - EPA TO15 PREP

Blank (BA01137-BLK1)

Prepared & Analyzed: 01/24/2020

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								



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

**York Analytical Laboratories, Inc.**

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

**Batch BA01137 - EPA TO15 PREP**

**Blank (BA01137-BLK1)**

Prepared & Analyzed: 01/24/2020

n-Heptane	ND	0.41	ug/m <sup>3</sup>								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.20		ppbv	10.0		92.0	70-130				

**LCS (BA01137-BS1)**

Prepared & Analyzed: 01/24/2020

1,1,1,2-Tetrachloroethane	9.66		ppbv	10.0		96.6	70-130				
1,1,1-Trichloroethane	9.72		"	10.0		97.2	70-130				
1,1,2,2-Tetrachloroethane	9.93		"	10.0		99.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.58		"	10.0		95.8	70-130				
1,1,2-Trichloroethane	9.69		"	10.0		96.9	70-130				
1,1-Dichloroethane	9.42		"	10.0		94.2	70-130				
1,1-Dichloroethylene	9.57		"	10.0		95.7	70-130				
1,2,4-Trichlorobenzene	9.59		"	10.0		95.9	70-130				
1,2,4-Trimethylbenzene	10.1		"	10.0		101	70-130				
1,2-Dibromoethane	9.78		"	10.0		97.8	70-130				
1,2-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,2-Dichloroethane	9.61		"	10.0		96.1	70-130				
1,2-Dichloropropane	9.42		"	10.0		94.2	70-130				
1,2-Dichlorotetrafluoroethane	9.44		"	10.0		94.4	70-130				
1,3,5-Trimethylbenzene	9.91		"	10.0		99.1	70-130				
1,3-Butadiene	9.96		"	10.0		99.6	70-130				
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,3-Dichloropropane	9.59		"	10.0		95.9	70-130				
1,4-Dichlorobenzene	10.7		"	10.0		107	70-130				
1,4-Dioxane	8.98		"	10.0		89.8	70-130				
2-Butanone	9.03		"	10.0		90.3	70-130				
2-Hexanone	9.48		"	10.0		94.8	70-130				
3-Chloropropene	9.43		"	10.0		94.3	70-130				
4-Methyl-2-pentanone	9.62		"	10.0		96.2	70-130				
Acetone	8.71		"	10.0		87.1	70-130				
Acrylonitrile	9.14		"	10.0		91.4	70-130				
Benzene	9.25		"	10.0		92.5	70-130				
Benzyl chloride	12.0		"	10.0		120	70-130				
Bromodichloromethane	9.80		"	10.0		98.0	70-130				
Bromoform	10.3		"	10.0		103	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

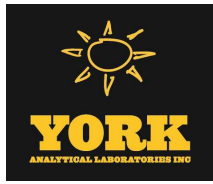
Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

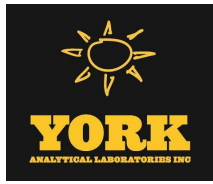
Batch BA01137 - EPA TO15 PREP

LCS (BA01137-BS1)

Prepared & Analyzed: 01/24/2020

Bromomethane	8.92		ppbv	10.0		89.2		70-130			
Carbon disulfide	9.87		"	10.0		98.7		70-130			
Carbon tetrachloride	9.63		"	10.0		96.3		70-130			
Chlorobenzene	9.51		"	10.0		95.1		70-130			
Chloroethane	9.34		"	10.0		93.4		70-130			
Chloroform	9.55		"	10.0		95.5		70-130			
Chloromethane	8.86		"	10.0		88.6		70-130			
cis-1,2-Dichloroethylene	9.01		"	10.0		90.1		70-130			
cis-1,3-Dichloropropylene	10.1		"	10.0		101		70-130			
Cyclohexane	9.39		"	10.0		93.9		70-130			
Dibromochloromethane	10.0		"	10.0		100		70-130			
Dichlorodifluoromethane	9.57		"	10.0		95.7		70-130			
Ethyl acetate	10.1		"	10.0		101		70-130			
Ethyl Benzene	9.41		"	10.0		94.1		70-130			
Hexachlorobutadiene	10.2		"	10.0		102		70-130			
Isopropanol	9.05		"	10.0		90.5		70-130			
Methyl Methacrylate	9.41		"	10.0		94.1		70-130			
Methyl tert-butyl ether (MTBE)	9.48		"	10.0		94.8		70-130			
Methylene chloride	9.78		"	10.0		97.8		70-130			
n-Heptane	9.44		"	10.0		94.4		70-130			
n-Hexane	9.21		"	10.0		92.1		70-130			
o-Xylene	9.55		"	10.0		95.5		70-130			
p- & m- Xylenes	19.3		"	20.0		96.4		70-130			
p-Ethyltoluene	10.1		"	10.0		101		70-130			
Propylene	8.85		"	10.0		88.5		70-130			
Styrene	10.1		"	10.0		101		70-130			
Tetrachloroethylene	8.66		"	10.0		86.6		70-130			
Tetrahydrofuran	9.14		"	10.0		91.4		70-130			
Toluene	9.40		"	10.0		94.0		70-130			
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2		70-130			
trans-1,3-Dichloropropylene	9.83		"	10.0		98.3		70-130			
Trichloroethylene	8.96		"	10.0		89.6		70-130			
Trichlorofluoromethane (Freon 11)	9.46		"	10.0		94.6		70-130			
Vinyl acetate	9.17		"	10.0		91.7		70-130			
Vinyl bromide	9.40		"	10.0		94.0		70-130			
Vinyl Chloride	8.08		"	10.0		80.8		70-130			
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103		70-130			





## Sample and Data Qualifiers Relating to This Work Order

TO-VAC The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.

### 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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# Field Chain-of-Custody Record - AIR

YORK Project No.

20A0763

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

Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	WSP USA	Company:	Same	Company:	WSP USA Accounting	31401451.000 Task 01.00		RUSH - Next Day	
Address:	4 Research Drive, Suite 204 Shelton, CT 06484	Address:		Address:		YOUR Project Name		RUSH - Two Day	
Phone:	203-929-8555	Phone:		Phone:		Rowe Industries		RUSH - Three Day	
Contact:	Tunde Komuves-Sandor	Contact:		Contact:				RUSH - Four Day	
E-mail:	tunde.sandor@wsp.com	E-mail:		E-mail:		YOUR PO#: 31401451.000 Task 01.00		Standard (5-7 Day) <input checked="" type="checkbox"/>	
<p><b>Report / EDD Type</b> (circle selections)</p> <p><b>Report / EDD Type</b> (circle selections)</p> <p><b>YORK Reg. Comp.</b> Compared to the following Regulation(s): (please fill in)</p>									
<b>Air Matrix Codes</b>		<b>Samples From</b>		<b>Summary Report</b>		<b>Standard Excel EDD</b>			
AI - Indoor Ambient Air	New York	X	New York	CT RCP	EQUS (Standard)				
AO - Outdoor Amb. Air	New Jersey		New Jersey	QA Report	NYSDEC EQUIS				
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut		Connecticut	NY ASP A Package	NUDEP Reduced Deliv.				
AS - Soil Vapor/Sub-Slab	Pennsylvania		Pennsylvania	NY ASP B Package	NUDEP SRP HazSite				
	Other		Other	Other:					
<p><b>Certified Canisters:</b> Batch _____ Individual _____</p> <p><b>Reporting Units:</b> ug/m<sup>3</sup> _____ ppbv _____ ppmv _____</p>									
<p><b>Please enter the following REQUIRED Field Data</b></p>									
<b>Sample Identification</b>	<b>Air Matrix</b>	<b>Canister Vacuum Before Sampling (in Hg)</b>	<b>Canister Vacuum After Sampling (in Hg)</b>	<b>Canister ID</b>	<b>Flow Cont. ID</b>	<b>Analysis Requested</b>			
NP4-1 AQ012120 NP4-1	AE	230	2.1 Hg	20664	TO-15				
NP4-3 AQ012120 NP4-3	AE	230	2.1 Hg	19527	TO-15				
<p><b>Comments:</b></p>									
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Sampling Media	
Seds Phos		1/21/20						6 Liter Canister Tedlar Bag	
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time			
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time			
								1-21-20 1515	