

TABLE 2

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

Effluent Water Quality Results

Date Sampled ^{2/}	pH ^{1/}	TDS ^{4/} (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)
SPDES Limits	6.5 to 8.5	---	5	5	5	5	5	5	5	5	5	5	5	---	10	7	---	---
3-Jan-18	6.9	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.0247	0.0247
1-Feb-18	6.8	157	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	4.43	0.0316
1-Mar-18	6.8	147	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.15 B	0.0574 B
2-Apr-18	6.8	136	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.99	0.0337
2-May-18	6.8	151	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	8.05	0.0492
5-Jun-18	6.8	138	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.252	ND<0.278
2-Jul-18	6.8	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.50	0.127
28-Aug-18	6.9	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.124	0.125
21-Sep-18	6.8	155	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	7.48	0.0369
5-Oct-18	6.9	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.66	ND<0.278
1-Nov-18	6.8	193	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.838	ND<0.278
5-Dec-18	6.9	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.845	ND<0.278

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

----: Not established

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

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

ND: Not detected NA: Not Analyzed

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

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

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

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

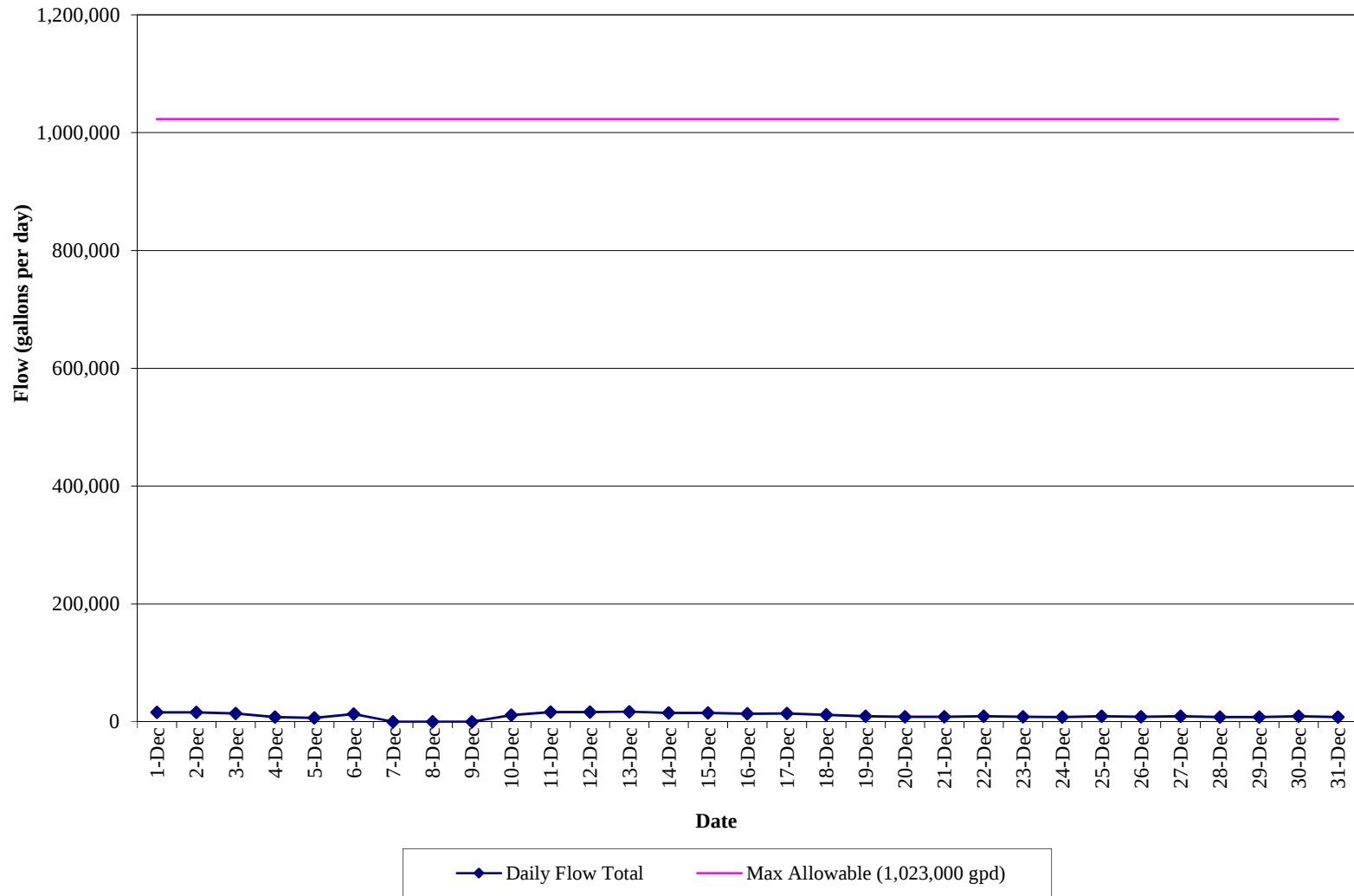
trans-1,2,-DCE: trans-1,2-Dichloroethene

Notes:

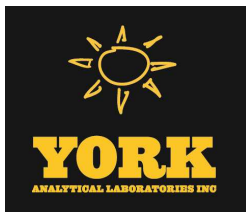
1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The pH of the effluent sample collected on December 18, 2018 was 6.85.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.
4. The laboratory mistakenly forgot to analyze the system effluent sample collected on August 28, 2018 for total dissolved solids (TDS).

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

Effluent Flow Data
(December 1, 2018 to December 31, 2018)



APPENDIX I
DECEMBER 2018 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: 12/19/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18L0502

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

STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/19/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18L0502

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 December 12, 2018 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>
18L0502-01	WQ120518:1500 NP2-6	Water	12/05/2018	12/12/2018
18L0502-02	WQ120518:1505 NP2-10	Water	12/05/2018	12/12/2018

General Notes for York Project (SDG) No.: 18L0502

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.

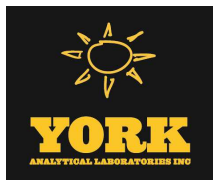
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/19/2018





Sample Information

Client Sample ID: WQ120518:1500 NP2-6

York Sample ID: 18L0502-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0502

31401451.000 task 01.00

Water

December 5, 2018 3:00 pm

12/12/2018

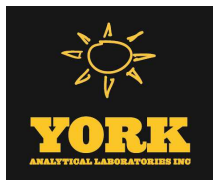
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 01:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS



Sample Information

Client Sample ID: WQ120518:1500 NP2-6

York Sample ID: 18L0502-01

York Project (SDG) No.

18L0502

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:00 pm

Date Received

12/12/2018

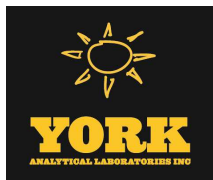
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 01:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
156-59-2	cis-1,2-Dichloroethylene	0.700		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS



Sample Information

Client Sample ID: WQ120518:1500 NP2-6

York Sample ID: 18L0502-01

York Project (SDG) No.

18L0502

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:00 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 01:14	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
127-18-4	Tetrachloroethylene	21.7	CCV-E, SCAL- E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
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	12/18/2018 12:30	12/19/2018 01:14	SS
79-01-6	Trichloroethylene	0.660		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:14	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 01:14	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	94.1 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.6 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	70-130								



Sample Information

Client Sample ID: WQ120518:1505 NP2-10

York Sample ID: 18L0502-02

York Project (SDG) No.

18L0502

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:05 pm

Date Received

12/12/2018

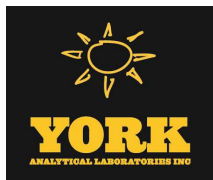
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 01:46	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS



Sample Information

Client Sample ID: WQ120518:1505 NP2-10

York Sample ID: 18L0502-02

York Project (SDG) No.

18L0502

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:05 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 01:46	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
74-87-3	Chloromethane	0.240		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 01:46	SS
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	12/18/2018 12:30	12/19/2018 01:46	SS

Sample Information

Client Sample ID: WO120518:1505 NP2-10

York Sample ID: 18L0502-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0502

31401451.000 task 01.00

Water

December 5, 2018 3:05 pm

12/12/2018

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:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/19/2018 01:46	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/19/2018 01:46	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 01:46	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/19/2018 01:46	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0 *Surrogate: SURR: 1,2-Dichloroethane-d4*

95.4 %

70-130

2037-26-5 *Surrogate: SURR: Toluene-d8*

97.8 %

70-130

460-00-4 *Surrogate: SURR: p-Bromofluorobenzene*

103 %

70-130

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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120 RESEARCH DRIVE

STRATFORD, CT 06615



132-02 89th AVENUE

RICHMOND HILL, NY 11418

www.YORKLAB.com

(203) 325-1371

FAX (203) 357-0166

ClientServices@



Sample Information

Client Sample ID: WQ120518:1505 NP2-10

York Sample ID: 18L0502-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0502

31401451.000 task 01.00

Water

December 5, 2018 3:05 pm

12/12/2018

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.845		mg/L	0.278	1	EPA 200.7	12/18/2018 12:12	12/18/2018 14:12	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/19/2018 12:54	12/19/2018 13:57	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	100		mg/L	10.0	1	SM 2540C	12/12/2018 19:29	12/12/2018 21:29	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



Analytical Batch Summary

Batch ID: BL80653 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18L0502-02	WQ120518:1505 NP2-10	12/12/18
BL80653-BLK1	Blank	12/12/18
BL80653-DUP2	Duplicate	12/12/18

Batch ID: BL80942 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0502-02	WQ120518:1505 NP2-10	12/18/18
BL80942-BLK1	Blank	12/18/18
BL80942-BS1	LCS	12/18/18

Batch ID: BL80947 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0502-01	WQ120518:1500 NP2-6	12/18/18
18L0502-02	WQ120518:1505 NP2-10	12/18/18
BL80947-BLK1	Blank	12/18/18
BL80947-BS1	LCS	12/18/18
BL80947-BSD1	LCS Dup	12/18/18

Batch ID: BL81021 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0502-02	WQ120518:1505 NP2-10	12/19/18
BL81021-BLK1	Blank	12/19/18
BL81021-BS1	LCS	12/19/18



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	Limit	Flag
		Limit		Level	Result		Limits		RPD		
Batch BL80947 - EPA 5030B											
Blank (BL80947-BLK1)							Prepared: 12/18/2018 Analyzed: 12/19/2018				
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL80947 - EPA 5030B

Blank (BL80947-BLK1)

Prepared: 12/18/2018 Analyzed: 12/19/2018

o-Xylene	ND	0.500	ug/L
p- & m- Xylenes	ND	1.00	"
p-Isopropyltoluene	ND	0.500	"
sec-Butylbenzene	ND	0.500	"
Styrene	ND	0.500	"
tert-Butylbenzene	ND	0.500	"
Tetrachloroethylene	ND	0.500	"
Toluene	ND	0.500	"
trans-1,2-Dichloroethylene	ND	0.500	"
trans-1,3-Dichloropropylene	ND	0.500	"
Trichloroethylene	ND	0.500	"
Trichlorofluoromethane	ND	0.500	"
Vinyl Chloride	ND	0.500	"
Xylenes, Total	ND	1.50	"

Surrogate: SURR: 1,2-Dichloroethane-d4

9.42

"

10.0

94.2

70-130

Surrogate: SURR: Toluene-d8

9.71

"

10.0

97.1

70-130

Surrogate: SURR: p-Bromofluorobenzene

10.1

"

10.0

101

70-130

LCS (BL80947-BS1)

Prepared & Analyzed: 12/18/2018

1,1,1,2-Tetrachloroethane	9.33	ug/L	10.0	93.3	82-126	30
1,1,1-Trichloroethane	9.73	"	10.0	97.3	70-130	20
1,1,2,2-Tetrachloroethane	8.98	"	10.0	89.8	70-130	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	"	10.0	103	70-130	20
1,1,2-Trichloroethane	9.48	"	10.0	94.8	70-130	20
1,1-Dichloroethane	10.2	"	10.0	102	70-130	20
1,1-Dichloroethylene	10.0	"	10.0	100	70-130	20
1,1-Dichloropropylene	9.73	"	10.0	97.3	83-133	30
1,2,3-Trichlorobenzene	9.33	"	10.0	93.3	70-130	20
1,2,3-Trichloropropane	9.09	"	10.0	90.9	77-128	30
1,2,4-Trichlorobenzene	8.91	"	10.0	89.1	70-130	20
1,2,4-Trimethylbenzene	9.22	"	10.0	92.2	82-132	20
1,2-Dibromo-3-chloropropane	9.24	"	10.0	92.4	40-160	20
1,2-Dibromoethane	9.69	"	10.0	96.9	70-130	20
1,2-Dichlorobenzene	9.33	"	10.0	93.3	70-130	20
1,2-Dichloroethane	9.85	"	10.0	98.5	70-130	20
1,2-Dichloropropane	9.49	"	10.0	94.9	70-130	20
1,3,5-Trimethylbenzene	9.37	"	10.0	93.7	80-131	30
1,3-Dichlorobenzene	9.12	"	10.0	91.2	70-130	20
1,3-Dichloropropane	9.62	"	10.0	96.2	81-125	30
1,4-Dichlorobenzene	9.12	"	10.0	91.2	70-130	20
2,2-Dichloropropane	8.52	"	10.0	85.2	56-150	30
2-Chlorotoluene	9.26	"	10.0	92.6	79-130	30
2-Hexanone	9.28	"	10.0	92.8	40-160	20
4-Chlorotoluene	9.24	"	10.0	92.4	79-128	30
Acetone	7.51	"	10.0	75.1	40-160	20
Benzene	10.5	"	10.0	105	70-130	20
Bromobenzene	9.10	"	10.0	91.0	78-129	30
Bromochloromethane	10.6	"	10.0	106	70-130	20
Bromodichloromethane	9.29	"	10.0	92.9	70-130	20
Bromoform	8.83	"	10.0	88.3	70-130	20
Bromomethane	10.6	"	10.0	106	40-160	20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL80947 - EPA 5030B

LCS (BL80947-BS1)

Prepared & Analyzed: 12/18/2018

Carbon tetrachloride	9.79		ug/L	10.0		97.9	70-130			20	
Chlorobenzene	9.46		"	10.0		94.6	70-130			20	
Chloroethane	11.7		"	10.0		117	40-160			20	
Chloroform	9.94		"	10.0		99.4	70-130			20	
Chloromethane	10.8		"	10.0		108	40-160			20	
cis-1,2-Dichloroethylene	9.83		"	10.0		98.3	70-130			20	
cis-1,3-Dichloropropylene	9.34		"	10.0		93.4	70-130			20	
Dibromochloromethane	9.45		"	10.0		94.5	70-130			20	
Dibromomethane	9.45		"	10.0		94.5	72-134			30	
Dichlorodifluoromethane	8.46		"	10.0		84.6	40-160			20	
Ethyl Benzene	9.49		"	10.0		94.9	70-130			20	
Hexachlorobutadiene	8.78		"	10.0		87.8	67-146			30	
Isopropylbenzene	9.19		"	10.0		91.9	70-130			20	
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	70-130			20	
Methylene chloride	10.4		"	10.0		104	70-130			20	
Naphthalene	9.65		"	10.0		96.5	70-147			30	
n-Butylbenzene	9.37		"	10.0		93.7	79-132			30	
n-Propylbenzene	9.35		"	10.0		93.5	78-133			30	
o-Xylene	9.38		"	10.0		93.8	70-130			20	
p- & m- Xylenes	15.9		"	20.0		79.6	70-130			20	
p-Isopropyltoluene	9.40		"	10.0		94.0	81-136			30	
sec-Butylbenzene	9.86		"	10.0		98.6	79-137			30	
Styrene	9.11		"	10.0		91.1	70-130			20	
tert-Butylbenzene	9.28		"	10.0		92.8	77-138			30	
Tetrachloroethylene	6.94		"	10.0		69.4	70-130	Low Bias		20	
Toluene	9.67		"	10.0		96.7	70-130			20	
trans-1,2-Dichloroethylene	9.95		"	10.0		99.5	70-130			20	
trans-1,3-Dichloropropylene	9.11		"	10.0		91.1	70-130			20	
Trichloroethylene	10.2		"	10.0		102	70-130			20	
Trichlorofluoromethane	12.1		"	10.0		121	40-160			20	
Vinyl Chloride	10.8		"	10.0		108	70-130			20	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.35		"	10.0		93.5	70-130				
Surrogate: SURR: Toluene-d8	9.68		"	10.0		96.8	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.76		"	10.0		97.6	70-130				



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
Batch BL80947 - EPA 5030B											
LCS Dup (BL80947-BSD1)						Prepared & Analyzed: 12/18/2018					
1,1,1,2-Tetrachloroethane	9.19		ug/L	10.0		91.9	82-126		1.51	30	
1,1,1-Trichloroethane	9.42		"	10.0		94.2	70-130		3.24	20	
1,1,2,2-Tetrachloroethane	8.77		"	10.0		87.7	70-130		2.37	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.91		"	10.0		99.1	70-130		3.96	20	
1,1,2-Trichloroethane	9.47		"	10.0		94.7	70-130		0.106	20	
1,1-Dichloroethane	9.89		"	10.0		98.9	70-130		2.99	20	
1,1-Dichloroethylene	9.74		"	10.0		97.4	70-130		2.83	20	
1,1-Dichloropropylene	9.46		"	10.0		94.6	83-133		2.81	30	
1,2,3-Trichlorobenzene	8.98		"	10.0		89.8	70-130		3.82	20	
1,2,3-Trichloropropane	9.10		"	10.0		91.0	77-128		0.110	30	
1,2,4-Trichlorobenzene	8.63		"	10.0		86.3	70-130		3.19	20	
1,2,4-Trimethylbenzene	9.05		"	10.0		90.5	82-132		1.86	20	
1,2-Dibromo-3-chloropropane	9.12		"	10.0		91.2	40-160		1.31	20	
1,2-Dibromoethane	9.56		"	10.0		95.6	70-130		1.35	20	
1,2-Dichlorobenzene	9.06		"	10.0		90.6	70-130		2.94	20	
1,2-Dichloroethane	9.74		"	10.0		97.4	70-130		1.12	20	
1,2-Dichloropropane	9.42		"	10.0		94.2	70-130		0.740	20	
1,3,5-Trimethylbenzene	9.01		"	10.0		90.1	80-131		3.92	30	
1,3-Dichlorobenzene	8.95		"	10.0		89.5	70-130		1.88	20	
1,3-Dichloropropane	9.51		"	10.0		95.1	81-125		1.15	30	
1,4-Dichlorobenzene	8.97		"	10.0		89.7	70-130		1.66	20	
2,2-Dichloropropane	8.08		"	10.0		80.8	56-150		5.30	30	
2-Chlorotoluene	9.03		"	10.0		90.3	79-130		2.52	30	
2-Hexanone	9.36		"	10.0		93.6	40-160		0.858	20	
4-Chlorotoluene	9.02		"	10.0		90.2	79-128		2.41	30	
Acetone	7.74		"	10.0		77.4	40-160		3.02	20	
Benzene	10.2		"	10.0		102	70-130		3.10	20	
Bromobenzene	9.00		"	10.0		90.0	78-129		1.10	30	
Bromochloromethane	10.3		"	10.0		103	70-130		2.77	20	
Bromodichloromethane	9.18		"	10.0		91.8	70-130		1.19	20	
Bromoform	8.71		"	10.0		87.1	70-130		1.37	20	
Bromomethane	10.8		"	10.0		108	40-160		1.22	20	
Carbon tetrachloride	9.49		"	10.0		94.9	70-130		3.11	20	
Chlorobenzene	9.27		"	10.0		92.7	70-130		2.03	20	
Chloroethane	11.2		"	10.0		112	40-160		4.02	20	
Chloroform	9.72		"	10.0		97.2	70-130		2.24	20	
Chloromethane	10.2		"	10.0		102	40-160		6.47	20	
cis-1,2-Dichloroethylene	9.61		"	10.0		96.1	70-130		2.26	20	
cis-1,3-Dichloropropylene	9.18		"	10.0		91.8	70-130		1.73	20	
Dibromochloromethane	9.32		"	10.0		93.2	70-130		1.39	20	
Dibromomethane	9.37		"	10.0		93.7	72-134		0.850	30	
Dichlorodifluoromethane	8.43		"	10.0		84.3	40-160		0.355	20	
Ethyl Benzene	9.26		"	10.0		92.6	70-130		2.45	20	
Hexachlorobutadiene	8.30		"	10.0		83.0	67-146		5.62	30	
Isopropylbenzene	8.93		"	10.0		89.3	70-130		2.87	20	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	70-130		0.191	20	
Methylene chloride	10.4		"	10.0		104	70-130		0.384	20	
Naphthalene	9.43		"	10.0		94.3	70-147		2.31	30	
n-Butylbenzene	8.19		"	10.0		81.9	79-132		13.4	30	
n-Propylbenzene	9.06		"	10.0		90.6	78-133		3.15	30	
o-Xylene	9.23		"	10.0		92.3	70-130		1.61	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 BL80947 - EPA 5030B

LCS Dup (BL80947-BSD1)

Prepared & Analyzed: 12/18/2018

p- & m- Xylenes	15.5		ug/L	20.0		77.6	70-130		2.48	20
p-Isopropyltoluene	9.07		"	10.0		90.7	81-136		3.57	30
sec-Butylbenzene	9.54		"	10.0		95.4	79-137		3.30	30
Styrene	8.99		"	10.0		89.9	70-130		1.33	20
tert-Butylbenzene	9.03		"	10.0		90.3	77-138		2.73	30
Tetrachloroethylene	6.84		"	10.0		68.4	70-130	Low Bias	1.45	20
Toluene	9.48		"	10.0		94.8	70-130		1.98	20
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	70-130		3.48	20
trans-1,3-Dichloropropylene	8.89		"	10.0		88.9	70-130		2.44	20
Trichloroethylene	9.92		"	10.0		99.2	70-130		2.69	20
Trichlorofluoromethane	11.7		"	10.0		117	40-160		3.95	20
Vinyl Chloride	10.2		"	10.0		102	70-130		5.79	20
Surrogate: SURR: 1,2-Dichloroethane-d4	9.45		"	10.0		94.5	70-130			
Surrogate: SURR: Toluene-d8	9.84		"	10.0		98.4	70-130			
Surrogate: SURR: p-Bromofluorobenzene	9.76		"	10.0		97.6	70-130			



Metals by ICP - 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 BL80942 - EPA 200.7

Blank (BL80942-BLK1)

Prepared & Analyzed: 12/18/2018

Iron ND 0.278 mg/L

LCS (BL80942-BS1)

Prepared & Analyzed: 12/18/2018

Iron 1.01 ug/mL 1.00 101 85-115

Batch BL81021 - EPA 3015A

Blank (BL81021-BLK1)

Prepared & Analyzed: 12/19/2018

Iron - Dissolved ND 0.278 mg/L

LCS (BL81021-BS1)

Prepared & Analyzed: 12/19/2018

Iron - Dissolved 1.04 ug/mL 1.00 104 80-120



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 BL80653 - % Solids Prep

Blank (BL80653-BLK1)

Prepared & Analyzed: 12/12/2018

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BL80653-DUP2)

*Source sample: 18L0502-02 (WQ120518:1505 NP2-10)

Prepared & Analyzed: 12/12/2018

Total Dissolved Solids 105 10.0 mg/L 100 4.88 15



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18L0502-01	WQ120518:1500 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0502-02	WQ120518:1505 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
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.





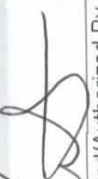
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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

York Project No. 18L0502

Page 1 of 1

YOUR INFORMATION			Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type			
Company:	WSP USA		☒ SAME	☒ X	Name:		31401451.000 task		RUSH-Same Day		Summary Report			
Address:	4 Research Drive		Name:		Company:		01.00		RUSH-Next Day		QA Report			
Suite:	301, Shelton CT 06484		Company:		Address:		Purchase Order #		RUSH-Two Day		CT RCP			
Phone:	203.929.8555		Address:				31401451.000 task		RUSH-Three Day		CT RCP QO/DUE Pkg			
Contact:	Tunde Sandor		E-mail:				01.00		RUSH-Four Day		NY ASP A Package			
E-mail:	tunde.sandor@wsp.com						Samples from CT, NY, NJ, VA		Standard (5-7 day)		NY ASP B Package			
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved. Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air - A - ambient air Air-SV - soil vapor Samples Collected/Authorized By (Signature)  Evan Foster Name (printed)			Volatiles		Semi-Vol.		Metals		Misc. Org.		Full Lists			
			8260 full		8270 or 625		RCRA8		TPH GRO		Pri. Poll.		Excel	
			624		STARS list		PPI3 list		TPH DRO		TCL Ogriks		NYSDEC EQUIS	
			STARS list		Nassau Co.		TAL		CT ETPH		TAL Med/CN		NUDEP SRP HazSite	
			BTX		Suffolk Co.		CT RCP		NY 310-13		Full TCLP		EQUIS	
Matrix Codes		TCL list		PAH list		App. IX		TAM list		Full App. IX		GIS/KEY (std)		
S - soil		TAGM list		TCL RCP list		Site Spec.		NIDEP list		Full 300/301		YORK Regulatory Comp Excel		
Other - specify (oil, etc.)		TCLP list		CT RCP list		STP or TCLP		Total		Air TO15		compared to:		
WW - wastewater		CT RCP list		TCL list		TCLP Pest		Dissolved		Air STARS		OTHER:		
GW - groundwater		Arom. only		502.2		NIDEP list		TCLP Herb		STP or TCLP		Container Description		
DW - drinking water		Halog. only		NIDEP list		App. IX		Chloridane		Air TICs		300a		
Air - A - ambient air		App. IX list		STP or TCLP		TCLP BNA		608 Pest		Methane		300a, 3plastiz		
Air-SV - soil vapor		8021B list		STP or TCLP		608 PCB		Helium		TAGM				
Matrix		Date/Time Sampled		Analysis Requested (List above includes common analysis)		Matrix		VOCs 8260 full plus freon 113		Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS				
GW		12-5-18 1500				GW								
GW		1505												
Sample Identification		Date/Time Sampled		Analysis Requested (List above includes common analysis)		Matrix		VOCs 8260 full plus freon 113		Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS				
120518:1500NP2-6		12-5-18 1500				GW								
1505NP2-10		1505												
Comments:		Preservation (check all applicable)		Special Instructions		Field Filtered ☐ Lab to Filter ☐		Temperature on Receipt 1.4 °C						
4°C		Frozen		HCl		MeOH		HNO ₃		NaOH				
12-6-18 1900		WSP Fridge		Date/Time		Date/Time		Date/Time		Date/Time				
12-12-18 1316		7200		Date/Time		Date/Time		Date/Time		Date/Time				

Rec'd by: JF
12/10/98

APPENDIX II
DECEMBER 2018 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: 12/20/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18L0504

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

STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/20/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18L0504

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 December 12, 2018 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>
18L0504-01	WQ120518:1510 FRW-1	Water	12/05/2018	12/12/2018
18L0504-02	WQ120518:1515 FRW-2	Water	12/05/2018	12/12/2018
18L0504-03	WQ120518:1520 FRW-3	Water	12/05/2018	12/12/2018
18L0504-04	WQ120518:1525 FRW-4	Water	12/05/2018	12/12/2018
18L0504-05	WQ120518:1450 NP1-1-2	Water	12/05/2018	12/12/2018

General Notes for York Project (SDG) No.: 18L0504

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.

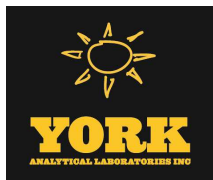
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/20/2018





Sample Information

Client Sample ID: WQ120518:1510 FRW-1

York Sample ID: 18L0504-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0504

31401451.000 task 01.00

Water

December 5, 2018 3:10 pm

12/12/2018

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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 02:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS



Sample Information

Client Sample ID: WQ120518:1510 FRW-1

York Sample ID: 18L0504-01

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:10 pm

Date Received

12/12/2018

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:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
74-87-3	Chloromethane	0.220		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
156-59-2	cis-1,2-Dichloroethylene	0.740		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 02:17	SS



Sample Information

Client Sample ID: WQ120518:1510 FRW-1

York Sample ID: 18L0504-01

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:10 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 02:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
127-18-4	Tetrachloroethylene	43.0	CCV-E, SCAL- E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
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	12/18/2018 12:30	12/19/2018 02:17	SS
79-01-6	Trichloroethylene	1.06		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:17	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 02:17	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.6 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	96.6 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	70-130								



Sample Information

Client Sample ID: WQ120518:1515 FRW-2

York Sample ID: 18L0504-02

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:15 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 02:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS



Sample Information

Client Sample ID: WQ120518:1515 FRW-2

York Sample ID: 18L0504-02

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:15 pm

Date Received

12/12/2018

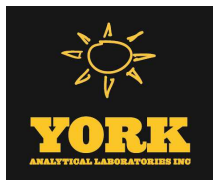
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 02:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
67-64-1	Acetone	1.00	CCV-E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
74-87-3	Chloromethane	0.330		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS



Sample Information

Client Sample ID: WQ120518:1515 FRW-2

York Sample ID: 18L0504-02

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:15 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 02:49	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
127-18-4	Tetrachloroethylene	19.1	CCV-E, SCAL-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
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	12/18/2018 12:30	12/19/2018 02:49	SS
79-01-6	Trichloroethylene	0.590		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 02:49	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 02:49	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.0 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.3 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	70-130								



Sample Information

Client Sample ID: WQ120518:1520 FRW-3

York Sample ID: 18L0504-03

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:20 pm

Date Received

12/12/2018

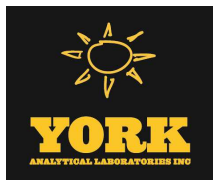
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 03:21	SS
71-55-6	1,1,1-Trichloroethane	0.570		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 03:21	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS



Sample Information

Client Sample ID: WQ120518:1520 FRW-3

York Sample ID: 18L0504-03

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:20 pm

Date Received

12/12/2018

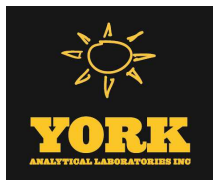
Volatile Organics, 8260 List - Low Level

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	12/18/2018 12:30	12/19/2018 03:21	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
67-64-1	Acetone	1.97	CCV-E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
74-87-3	Chloromethane	0.250		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
156-59-2	cis-1,2-Dichloroethylene	6.98		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS



Sample Information

Client Sample ID: WQ120518:1520 FRW-3

York Sample ID: 18L0504-03

York Project (SDG) No.
18L0504

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
December 5, 2018 3:20 pm

Date Received
12/12/2018

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	12/18/2018 12:30	12/19/2018 03:21	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
127-18-4	Tetrachloroethylene	109	CCV-E, SCAL-E	ug/L	1.00	2.50	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/19/2018 15:09	12/19/2018 18:35	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
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	12/18/2018 12:30	12/19/2018 03:21	SS
79-01-6	Trichloroethylene	6.83		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:21	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 03:21	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	94.2 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.7 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	106 %	70-130								



Sample Information

Client Sample ID: WQ120518:1525 FRW-4

York Sample ID: 18L0504-04

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:25 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 03:52	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS



Sample Information

Client Sample ID: WQ120518:1525 FRW-4

York Sample ID: 18L0504-04

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:25 pm

Date Received

12/12/2018

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:	12/18/2018 12:30	12/19/2018 03:52	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
156-59-2	cis-1,2-Dichloroethylene	0.650		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/18/2018 12:30	12/19/2018 03:52	SS



Sample Information

Client Sample ID: WQ120518:1525 FRW-4

York Sample ID: 18L0504-04

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 3:25 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 03:52	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
127-18-4	Tetrachloroethylene	2.36	CCV-E, SCAL-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
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	12/18/2018 12:30	12/19/2018 03:52	SS
79-01-6	Trichloroethylene	0.450		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 03:52	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 03:52	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.0 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.3 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %	70-130								



Sample Information

Client Sample ID: WQ120518:1450 NP1-1-2

York Sample ID: 18L0504-05

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 2:50 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 04:24	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS



Sample Information

Client Sample ID: WQ120518:1450 NP1-1-2

York Sample ID: 18L0504-05

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 2:50 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 04:24	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
74-87-3	Chloromethane	0.270		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS



Sample Information

Client Sample ID: WQ120518:1450 NP1-1-2

York Sample ID: 18L0504-05

York Project (SDG) No.

18L0504

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

December 5, 2018 2:50 pm

Date Received

12/12/2018

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	12/18/2018 12:30	12/19/2018 04:24	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
127-18-4	Tetrachloroethylene	0.300	CCV-E, SCAL-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
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	12/18/2018 12:30	12/19/2018 04:24	SS
79-01-6	Trichloroethylene	0.380		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/18/2018 12:30	12/19/2018 04:24	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/18/2018 12:30	12/19/2018 04:24	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.6 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.7 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %	70-130								



Analytical Batch Summary

Batch ID: BL80947

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0504-01	WQ120518:1510 FRW-1	12/18/18
18L0504-02	WQ120518:1515 FRW-2	12/18/18
18L0504-03	WQ120518:1520 FRW-3	12/18/18
18L0504-04	WQ120518:1525 FRW-4	12/18/18
18L0504-05	WQ120518:1450 NP1-1-2	12/18/18
BL80947-BLK1	Blank	12/18/18
BL80947-BS1	LCS	12/18/18
BL80947-BSD1	LCS Dup	12/18/18

Batch ID: BL81003

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0504-03RE1	WQ120518:1520 FRW-3	12/19/18
BL81003-BLK1	Blank	12/19/18
BL81003-BS1	LCS	12/19/18
BL81003-BSD1	LCS Dup	12/19/18



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 BL80947 - EPA 5030B

Blank (BL80947-BLK1)

Prepared: 12/18/2018 Analyzed: 12/19/2018

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL80947 - EPA 5030B

Blank (BL80947-BLK1)

Prepared: 12/18/2018 Analyzed: 12/19/2018

o-Xylene	ND	0.500	ug/L
p- & m- Xylenes	ND	1.00	"
p-Isopropyltoluene	ND	0.500	"
sec-Butylbenzene	ND	0.500	"
Styrene	ND	0.500	"
tert-Butylbenzene	ND	0.500	"
Tetrachloroethylene	ND	0.500	"
Toluene	ND	0.500	"
trans-1,2-Dichloroethylene	ND	0.500	"
trans-1,3-Dichloropropylene	ND	0.500	"
Trichloroethylene	ND	0.500	"
Trichlorofluoromethane	ND	0.500	"
Vinyl Chloride	ND	0.500	"
Xylenes, Total	ND	1.50	"

Surrogate: SURR: 1,2-Dichloroethane-d4

9.42

"

10.0

94.2

70-130

Surrogate: SURR: Toluene-d8

9.71

"

10.0

97.1

70-130

Surrogate: SURR: p-Bromofluorobenzene

10.1

"

10.0

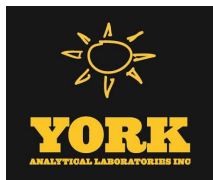
101

70-130

LCS (BL80947-BS1)

Prepared & Analyzed: 12/18/2018

1,1,1,2-Tetrachloroethane	9.33	ug/L	10.0	93.3	82-126	30
1,1,1-Trichloroethane	9.73	"	10.0	97.3	70-130	20
1,1,2,2-Tetrachloroethane	8.98	"	10.0	89.8	70-130	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	"	10.0	103	70-130	20
1,1,2-Trichloroethane	9.48	"	10.0	94.8	70-130	20
1,1-Dichloroethane	10.2	"	10.0	102	70-130	20
1,1-Dichloroethylene	10.0	"	10.0	100	70-130	20
1,1-Dichloropropylene	9.73	"	10.0	97.3	83-133	30
1,2,3-Trichlorobenzene	9.33	"	10.0	93.3	70-130	20
1,2,3-Trichloropropane	9.09	"	10.0	90.9	77-128	30
1,2,4-Trichlorobenzene	8.91	"	10.0	89.1	70-130	20
1,2,4-Trimethylbenzene	9.22	"	10.0	92.2	82-132	20
1,2-Dibromo-3-chloropropane	9.24	"	10.0	92.4	40-160	20
1,2-Dibromoethane	9.69	"	10.0	96.9	70-130	20
1,2-Dichlorobenzene	9.33	"	10.0	93.3	70-130	20
1,2-Dichloroethane	9.85	"	10.0	98.5	70-130	20
1,2-Dichloropropane	9.49	"	10.0	94.9	70-130	20
1,3,5-Trimethylbenzene	9.37	"	10.0	93.7	80-131	30
1,3-Dichlorobenzene	9.12	"	10.0	91.2	70-130	20
1,3-Dichloropropane	9.62	"	10.0	96.2	81-125	30
1,4-Dichlorobenzene	9.12	"	10.0	91.2	70-130	20
2,2-Dichloropropane	8.52	"	10.0	85.2	56-150	30
2-Chlorotoluene	9.26	"	10.0	92.6	79-130	30
2-Hexanone	9.28	"	10.0	92.8	40-160	20
4-Chlorotoluene	9.24	"	10.0	92.4	79-128	30
Acetone	7.51	"	10.0	75.1	40-160	20
Benzene	10.5	"	10.0	105	70-130	20
Bromobenzene	9.10	"	10.0	91.0	78-129	30
Bromochloromethane	10.6	"	10.0	106	70-130	20
Bromodichloromethane	9.29	"	10.0	92.9	70-130	20
Bromoform	8.83	"	10.0	88.3	70-130	20
Bromomethane	10.6	"	10.0	106	40-160	20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL80947 - EPA 5030B

LCS (BL80947-BS1)

Prepared & Analyzed: 12/18/2018

Carbon tetrachloride	9.79		ug/L	10.0		97.9	70-130			20	
Chlorobenzene	9.46		"	10.0		94.6	70-130			20	
Chloroethane	11.7		"	10.0		117	40-160			20	
Chloroform	9.94		"	10.0		99.4	70-130			20	
Chloromethane	10.8		"	10.0		108	40-160			20	
cis-1,2-Dichloroethylene	9.83		"	10.0		98.3	70-130			20	
cis-1,3-Dichloropropylene	9.34		"	10.0		93.4	70-130			20	
Dibromochloromethane	9.45		"	10.0		94.5	70-130			20	
Dibromomethane	9.45		"	10.0		94.5	72-134			30	
Dichlorodifluoromethane	8.46		"	10.0		84.6	40-160			20	
Ethyl Benzene	9.49		"	10.0		94.9	70-130			20	
Hexachlorobutadiene	8.78		"	10.0		87.8	67-146			30	
Isopropylbenzene	9.19		"	10.0		91.9	70-130			20	
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	70-130			20	
Methylene chloride	10.4		"	10.0		104	70-130			20	
Naphthalene	9.65		"	10.0		96.5	70-147			30	
n-Butylbenzene	9.37		"	10.0		93.7	79-132			30	
n-Propylbenzene	9.35		"	10.0		93.5	78-133			30	
o-Xylene	9.38		"	10.0		93.8	70-130			20	
p- & m- Xylenes	15.9		"	20.0		79.6	70-130			20	
p-Isopropyltoluene	9.40		"	10.0		94.0	81-136			30	
sec-Butylbenzene	9.86		"	10.0		98.6	79-137			30	
Styrene	9.11		"	10.0		91.1	70-130			20	
tert-Butylbenzene	9.28		"	10.0		92.8	77-138			30	
Tetrachloroethylene	6.94		"	10.0		69.4	70-130	Low Bias		20	
Toluene	9.67		"	10.0		96.7	70-130			20	
trans-1,2-Dichloroethylene	9.95		"	10.0		99.5	70-130			20	
trans-1,3-Dichloropropylene	9.11		"	10.0		91.1	70-130			20	
Trichloroethylene	10.2		"	10.0		102	70-130			20	
Trichlorofluoromethane	12.1		"	10.0		121	40-160			20	
Vinyl Chloride	10.8		"	10.0		108	70-130			20	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.35		"	10.0		93.5	70-130				
Surrogate: SURR: Toluene-d8	9.68		"	10.0		96.8	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.76		"	10.0		97.6	70-130				



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
Batch BL80947 - EPA 5030B											
LCS Dup (BL80947-BSD1)						Prepared & Analyzed: 12/18/2018					
1,1,1,2-Tetrachloroethane	9.19		ug/L	10.0		91.9	82-126		1.51	30	
1,1,1-Trichloroethane	9.42		"	10.0		94.2	70-130		3.24	20	
1,1,2,2-Tetrachloroethane	8.77		"	10.0		87.7	70-130		2.37	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.91		"	10.0		99.1	70-130		3.96	20	
1,1,2-Trichloroethane	9.47		"	10.0		94.7	70-130		0.106	20	
1,1-Dichloroethane	9.89		"	10.0		98.9	70-130		2.99	20	
1,1-Dichloroethylene	9.74		"	10.0		97.4	70-130		2.83	20	
1,1-Dichloropropylene	9.46		"	10.0		94.6	83-133		2.81	30	
1,2,3-Trichlorobenzene	8.98		"	10.0		89.8	70-130		3.82	20	
1,2,3-Trichloropropane	9.10		"	10.0		91.0	77-128		0.110	30	
1,2,4-Trichlorobenzene	8.63		"	10.0		86.3	70-130		3.19	20	
1,2,4-Trimethylbenzene	9.05		"	10.0		90.5	82-132		1.86	20	
1,2-Dibromo-3-chloropropane	9.12		"	10.0		91.2	40-160		1.31	20	
1,2-Dibromoethane	9.56		"	10.0		95.6	70-130		1.35	20	
1,2-Dichlorobenzene	9.06		"	10.0		90.6	70-130		2.94	20	
1,2-Dichloroethane	9.74		"	10.0		97.4	70-130		1.12	20	
1,2-Dichloropropane	9.42		"	10.0		94.2	70-130		0.740	20	
1,3,5-Trimethylbenzene	9.01		"	10.0		90.1	80-131		3.92	30	
1,3-Dichlorobenzene	8.95		"	10.0		89.5	70-130		1.88	20	
1,3-Dichloropropane	9.51		"	10.0		95.1	81-125		1.15	30	
1,4-Dichlorobenzene	8.97		"	10.0		89.7	70-130		1.66	20	
2,2-Dichloropropane	8.08		"	10.0		80.8	56-150		5.30	30	
2-Chlorotoluene	9.03		"	10.0		90.3	79-130		2.52	30	
2-Hexanone	9.36		"	10.0		93.6	40-160		0.858	20	
4-Chlorotoluene	9.02		"	10.0		90.2	79-128		2.41	30	
Acetone	7.74		"	10.0		77.4	40-160		3.02	20	
Benzene	10.2		"	10.0		102	70-130		3.10	20	
Bromobenzene	9.00		"	10.0		90.0	78-129		1.10	30	
Bromochloromethane	10.3		"	10.0		103	70-130		2.77	20	
Bromodichloromethane	9.18		"	10.0		91.8	70-130		1.19	20	
Bromoform	8.71		"	10.0		87.1	70-130		1.37	20	
Bromomethane	10.8		"	10.0		108	40-160		1.22	20	
Carbon tetrachloride	9.49		"	10.0		94.9	70-130		3.11	20	
Chlorobenzene	9.27		"	10.0		92.7	70-130		2.03	20	
Chloroethane	11.2		"	10.0		112	40-160		4.02	20	
Chloroform	9.72		"	10.0		97.2	70-130		2.24	20	
Chloromethane	10.2		"	10.0		102	40-160		6.47	20	
cis-1,2-Dichloroethylene	9.61		"	10.0		96.1	70-130		2.26	20	
cis-1,3-Dichloropropylene	9.18		"	10.0		91.8	70-130		1.73	20	
Dibromochloromethane	9.32		"	10.0		93.2	70-130		1.39	20	
Dibromomethane	9.37		"	10.0		93.7	72-134		0.850	30	
Dichlorodifluoromethane	8.43		"	10.0		84.3	40-160		0.355	20	
Ethyl Benzene	9.26		"	10.0		92.6	70-130		2.45	20	
Hexachlorobutadiene	8.30		"	10.0		83.0	67-146		5.62	30	
Isopropylbenzene	8.93		"	10.0		89.3	70-130		2.87	20	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	70-130		0.191	20	
Methylene chloride	10.4		"	10.0		104	70-130		0.384	20	
Naphthalene	9.43		"	10.0		94.3	70-147		2.31	30	
n-Butylbenzene	8.19		"	10.0		81.9	79-132		13.4	30	
n-Propylbenzene	9.06		"	10.0		90.6	78-133		3.15	30	
o-Xylene	9.23		"	10.0		92.3	70-130		1.61	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 BL80947 - EPA 5030B

LCS Dup (BL80947-BSD1)

Prepared & Analyzed: 12/18/2018

p- & m- Xylenes	15.5		ug/L	20.0		77.6	70-130		2.48	20
p-Isopropyltoluene	9.07		"	10.0		90.7	81-136		3.57	30
sec-Butylbenzene	9.54		"	10.0		95.4	79-137		3.30	30
Styrene	8.99		"	10.0		89.9	70-130		1.33	20
tert-Butylbenzene	9.03		"	10.0		90.3	77-138		2.73	30
Tetrachloroethylene	6.84		"	10.0		68.4	70-130	Low Bias	1.45	20
Toluene	9.48		"	10.0		94.8	70-130		1.98	20
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	70-130		3.48	20
trans-1,3-Dichloropropylene	8.89		"	10.0		88.9	70-130		2.44	20
Trichloroethylene	9.92		"	10.0		99.2	70-130		2.69	20
Trichlorofluoromethane	11.7		"	10.0		117	40-160		3.95	20
Vinyl Chloride	10.2		"	10.0		102	70-130		5.79	20
Surrogate: SURR: 1,2-Dichloroethane-d4	9.45		"	10.0		94.5	70-130			
Surrogate: SURR: Toluene-d8	9.84		"	10.0		98.4	70-130			
Surrogate: SURR: p-Bromofluorobenzene	9.76		"	10.0		97.6	70-130			

Batch BL81003 - EPA 5030B

Blank (BL81003-BLK1)

Prepared & Analyzed: 12/19/2018

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	"



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 BL81003 - EPA 5030B

Blank (BL81003-BLK1)

Prepared & Analyzed: 12/19/2018

Carbon tetrachloride	ND	0.500	ug/L								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
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	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	9.23		"	10.0		92.3	70-130				
Surrogate: SURR: Toluene-d8	9.74		"	10.0		97.4	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.4		"	10.0		104	70-130				



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
Batch BL81003 - EPA 5030B											
LCS (BL81003-BS1)						Prepared & Analyzed: 12/19/2018					
1,1,1,2-Tetrachloroethane	9.75		ug/L	10.0		97.5	82-126			30	
1,1,1-Trichloroethane	10.2		"	10.0		102	70-130			20	
1,1,2,2-Tetrachloroethane	10.6		"	10.0		106	70-130			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	70-130			20	
1,1,2-Trichloroethane	10.2		"	10.0		102	70-130			20	
1,1-Dichloroethane	10.9		"	10.0		109	70-130			20	
1,1-Dichloroethylene	10.4		"	10.0		104	70-130			20	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133			30	
1,2,3-Trichlorobenzene	9.71		"	10.0		97.1	70-130			20	
1,2,3-Trichloropropane	10.0		"	10.0		100	77-128			30	
1,2,4-Trichlorobenzene	9.27		"	10.0		92.7	70-130			20	
1,2,4-Trimethylbenzene	9.40		"	10.0		94.0	82-132			20	
1,2-Dibromo-3-chloropropane	9.96		"	10.0		99.6	40-160			20	
1,2-Dibromoethane	10.4		"	10.0		104	70-130			20	
1,2-Dichlorobenzene	9.64		"	10.0		96.4	70-130			20	
1,2-Dichloroethane	10.6		"	10.0		106	70-130			20	
1,2-Dichloropropane	10.2		"	10.0		102	70-130			20	
1,3,5-Trimethylbenzene	9.38		"	10.0		93.8	80-131			30	
1,3-Dichlorobenzene	9.32		"	10.0		93.2	70-130			20	
1,3-Dichloropropane	10.4		"	10.0		104	81-125			30	
1,4-Dichlorobenzene	9.41		"	10.0		94.1	70-130			20	
2,2-Dichloropropane	9.52		"	10.0		95.2	56-150			30	
2-Chlorotoluene	9.42		"	10.0		94.2	79-130			30	
2-Hexanone	10.0		"	10.0		100	40-160			20	
4-Chlorotoluene	9.43		"	10.0		94.3	79-128			30	
Acetone	6.85		"	10.0		68.5	40-160			20	
Benzene	11.2		"	10.0		112	70-130			20	
Bromobenzene	9.36		"	10.0		93.6	78-129			30	
Bromochloromethane	11.8		"	10.0		118	70-130			20	
Bromodichloromethane	9.91		"	10.0		99.1	70-130			20	
Bromoform	9.55		"	10.0		95.5	70-130			20	
Bromomethane	13.0		"	10.0		130	40-160			20	
Carbon tetrachloride	10.1		"	10.0		101	70-130			20	
Chlorobenzene	9.88		"	10.0		98.8	70-130			20	
Chloroethane	12.7		"	10.0		127	40-160			20	
Chloroform	10.6		"	10.0		106	70-130			20	
Chloromethane	11.1		"	10.0		111	40-160			20	
cis-1,2-Dichloroethylene	10.5		"	10.0		105	70-130			20	
cis-1,3-Dichloropropylene	9.94		"	10.0		99.4	70-130			20	
Dibromochloromethane	10.1		"	10.0		101	70-130			20	
Dibromomethane	10.2		"	10.0		102	72-134			30	
Dichlorodifluoromethane	7.99		"	10.0		79.9	40-160			20	
Ethyl Benzene	9.96		"	10.0		99.6	70-130			20	
Hexachlorobutadiene	8.75		"	10.0		87.5	67-146			30	
Isopropylbenzene	9.31		"	10.0		93.1	70-130			20	
Methyl tert-butyl ether (MTBE)	11.3		"	10.0		113	70-130			20	
Methylene chloride	11.2		"	10.0		112	70-130			20	
Naphthalene	10.2		"	10.0		102	70-147			30	
n-Butylbenzene	10.0		"	10.0		100	79-132			30	
n-Propylbenzene	9.50		"	10.0		95.0	78-133			30	
o-Xylene	9.82		"	10.0		98.2	70-130			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
Batch BL81003 - EPA 5030B											
LCS (BL81003-BS1)						Prepared & Analyzed: 12/19/2018					
p- & m- Xylenes	16.5		ug/L	20.0		82.6	70-130			20	
p-Isopropyltoluene	9.47		"	10.0		94.7	81-136			30	
sec-Butylbenzene	9.89		"	10.0		98.9	79-137			30	
Styrene	9.67		"	10.0		96.7	70-130			20	
tert-Butylbenzene	9.32		"	10.0		93.2	77-138			30	
Tetrachloroethylene	7.18		"	10.0		71.8	70-130			20	
Toluene	10.1		"	10.0		101	70-130			20	
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130			20	
trans-1,3-Dichloropropylene	9.81		"	10.0		98.1	70-130			20	
Trichloroethylene	9.58		"	10.0		95.8	70-130			20	
Trichlorofluoromethane	13.4		"	10.0		134	40-160			20	
Vinyl Chloride	11.2		"	10.0		112	70-130			20	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.70		"	10.0		97.0	70-130				
Surrogate: SURR: Toluene-d8	9.72		"	10.0		97.2	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.45		"	10.0		94.5	70-130				
LCS Dup (BL81003-BSD1)						Prepared & Analyzed: 12/19/2018					
1,1,1,2-Tetrachloroethane	9.68		ug/L	10.0		96.8	82-126		0.721	30	
1,1,1-Trichloroethane	9.86		"	10.0		98.6	70-130		2.90	20	
1,1,2,2-Tetrachloroethane	10.6		"	10.0		106	70-130		0.471	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	70-130		1.99	20	
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130		1.08	20	
1,1-Dichloroethane	10.6		"	10.0		106	70-130		1.95	20	
1,1-Dichloroethylene	10.2		"	10.0		102	70-130		2.13	20	
1,1-Dichloropropylene	10.1		"	10.0		101	83-133		2.84	30	
1,2,3-Trichlorobenzene	10.1		"	10.0		101	70-130		4.33	20	
1,2,3-Trichloropropane	9.96		"	10.0		99.6	77-128		0.601	30	
1,2,4-Trichlorobenzene	9.54		"	10.0		95.4	70-130		2.87	20	
1,2,4-Trimethylbenzene	9.50		"	10.0		95.0	82-132		1.06	20	
1,2-Dibromo-3-chloropropane	10.0		"	10.0		100	40-160		0.900	20	
1,2-Dibromoethane	10.3		"	10.0		103	70-130		1.16	20	
1,2-Dichlorobenzene	9.75		"	10.0		97.5	70-130		1.13	20	
1,2-Dichloroethane	10.4		"	10.0		104	70-130		2.00	20	
1,2-Dichloropropane	10.1		"	10.0		101	70-130		1.48	20	
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		1.17	30	
1,3-Dichlorobenzene	9.53		"	10.0		95.3	70-130		2.23	20	
1,3-Dichloropropane	10.4		"	10.0		104	81-125		0.385	30	
1,4-Dichlorobenzene	9.53		"	10.0		95.3	70-130		1.27	20	
2,2-Dichloropropane	9.27		"	10.0		92.7	56-150		2.66	30	
2-Chlorotoluene	9.57		"	10.0		95.7	79-130		1.58	30	
2-Hexanone	10.1		"	10.0		101	40-160		0.892	20	
4-Chlorotoluene	9.56		"	10.0		95.6	79-128		1.37	30	
Acetone	7.12		"	10.0		71.2	40-160		3.87	20	
Benzene	11.0		"	10.0		110	70-130		1.90	20	
Bromobenzene	9.49		"	10.0		94.9	78-129		1.38	30	
Bromochloromethane	11.7		"	10.0		117	70-130		1.02	20	
Bromodichloromethane	9.87		"	10.0		98.7	70-130		0.404	20	
Bromoform	9.45		"	10.0		94.5	70-130		1.05	20	
Bromomethane	13.3		"	10.0		133	40-160		2.52	20	
Carbon tetrachloride	9.90		"	10.0		99.0	70-130		2.10	20	
Chlorobenzene	9.87		"	10.0		98.7	70-130		0.101	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 BL81003 - EPA 5030B

LCS Dup (BL81003-BSD1)

Prepared & Analyzed: 12/19/2018

Chloroethane	12.6		ug/L	10.0		126	40-160		1.18	20	
Chloroform	10.4		"	10.0		104	70-130		1.14	20	
Chloromethane	11.0		"	10.0		110	40-160		1.27	20	
cis-1,2-Dichloroethylene	10.5		"	10.0		105	70-130		0.381	20	
cis-1,3-Dichloropropylene	9.94		"	10.0		99.4	70-130		0.00	20	
Dibromochloromethane	10.1		"	10.0		101	70-130		0.0988	20	
Dibromomethane	10.2		"	10.0		102	72-134		0.0984	30	
Dichlorodifluoromethane	7.88		"	10.0		78.8	40-160		1.39	20	
Ethyl Benzene	9.71		"	10.0		97.1	70-130		2.54	20	
Hexachlorobutadiene	8.69		"	10.0		86.9	67-146		0.688	30	
Isopropylbenzene	9.41		"	10.0		94.1	70-130		1.07	20	
Methyl tert-butyl ether (MTBE)	11.3		"	10.0		113	70-130		0.354	20	
Methylene chloride	11.2		"	10.0		112	70-130		0.625	20	
Naphthalene	10.6		"	10.0		106	70-147		4.05	30	
n-Butylbenzene	8.81		"	10.0		88.1	79-132		12.9	30	
n-Propylbenzene	9.60		"	10.0		96.0	78-133		1.05	30	
o-Xylene	9.65		"	10.0		96.5	70-130		1.75	20	
p- & m- Xylenes	16.2		"	20.0		81.2	70-130		1.71	20	
p-Isopropyltoluene	9.59		"	10.0		95.9	81-136		1.26	30	
sec-Butylbenzene	9.95		"	10.0		99.5	79-137		0.605	30	
Styrene	9.61		"	10.0		96.1	70-130		0.622	20	
tert-Butylbenzene	9.39		"	10.0		93.9	77-138		0.748	30	
Tetrachloroethylene	7.05		"	10.0		70.5	70-130		1.83	20	
Toluene	9.90		"	10.0		99.0	70-130		1.80	20	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	70-130		0.193	20	
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	70-130		0.819	20	
Trichloroethylene	9.50		"	10.0		95.0	70-130		0.839	20	
Trichlorofluoromethane	12.7		"	10.0		127	40-160		4.98	20	
Vinyl Chloride	10.8		"	10.0		108	70-130		3.44	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.52		"	10.0		95.2	70-130				
Surrogate: SURR: Toluene-d8	9.72		"	10.0		97.2	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.74		"	10.0		97.4	70-130				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18L0504-01	WQ120518:1510 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0504-02	WQ120518:1515 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0504-03	WQ120518:1520 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0504-04	WQ120518:1525 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0504-05	WQ120518:1450 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
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.

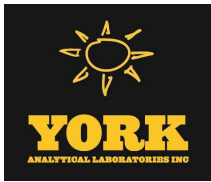
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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





YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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

York Project No. 18L0504

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company:	WSP USA	SAME ☒	SAME ☒	Name:		31401451.000 task		RUSH-Same Day		Summary Report X, PDF	
Address:	4 Research Drive	Name:		Company:		01.00		RUSH-Next Day		QA Report X, PDF	
Suite:	301, Shelton CT 06484	Address:		Purchase Order #		31401451.000 task		RUSH-Two Day		CT RCP	
Phone:	203.929.8555	Address:		01.00		Samples from CT_NY_NJ		RUSH-Three Day		CT RCP DQ/DUE Pkg	
Contact:	Tunde Sandor	E-mail:		tunde.sandor@wsp.com		Standard (5-7day)		RUSH-Four Day		NY ASP A Package	
E-mail:	tunde.sandor@wsp.com	E-mail:						Standard (5-7day)		NY ASP B Package X, PDF	
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved. Samples Collected/Authorized By (Signature) <u>Evan Foster</u> Name (printed) <u>Evan Foster</u>											
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air - A - ambient air Air-SV - soil vapor											
Volatiles 8260 full TICs Site Spec. Nassau Co. Suffolk Co. MTBE Ketones Oxygenates TAGM list TCLP list CT RCP list Arom. only Halog. only NDEP list App. IX list 8021B list											
Semi-Volatiles 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCLP list NDEP list App. IX TCLP BNA SPL or TCLP											
Metals RCA8 8081 Pest 8151 Herb CT RCP App. IX Site Spec. SPL or TCLP Dissolved TCLP Herb Chloride 608 Pest SPL or TCLP											
Misc. Org. TPH GRO TPH DRO CT ETPH CT 5 list TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium											
Full Lists Ph. Poll. TCL Organics TAL Met/CN Full TCLP Full App. IX Part 360-Extr. Part 360-Extr. (H₂O) Part 360-Extr. (H₂O) NYC DEP Sewer NY DEC Clear TAGM											
Analysis Requested (List above includes common analysis) VOCs 8260 full plus freon 113											
Container Description 3 VOCs											
OTHER:											
Comments: WQ120518:1510 FRU-1 12-5-18; 1510 :1515 FRU-2 :1520 FRU-3 :1525 FRU-4 :1450 NPI-1-2											
Preservation (check all applicable) 4°C ☒ Frozen ☒ HCl ☒ MeOH ☒ HNO₃ ☒ H₂O₂ ☒ NaOH ☒ Special Instructions Field Filtered ☐ Lab to Filter ☐											
Temperature on Receipt 1.4 °C											
Date/Time 12-6-18 1900 12-6-18 1316											
Date/Time 12-6-18 1900 12-6-18 1316											
Date/Time 12-6-18 1900 12-6-18 1316											
Date/Time 12-6-18 1900 12-6-18 1316											