

TABLE 2

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

Effluent Water Quality Results

Date Sampled ^{2/}	pH ^{1/}	TDS (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)	Ethylbenzene (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	---	---
1-Jun-17	6.5	127	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	0.10	0.097
6-Jul-17	6.5	159	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	0.46	ND<0.02
1-Aug-17	6.8	143	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	3.00	0.193
5-Sep-17	6.8	298	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	2.12	0.051
4-Oct-17	6.5	162	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	2.24	0.036
1-Nov-17	6.8	196	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	0.66	0.043
5-Dec-17	6.9	153	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.04	0.053
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	0.02	0.025
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	0.032
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	0.057
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	0.034
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	0.049
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	0.25	ND<0.02
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

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

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:

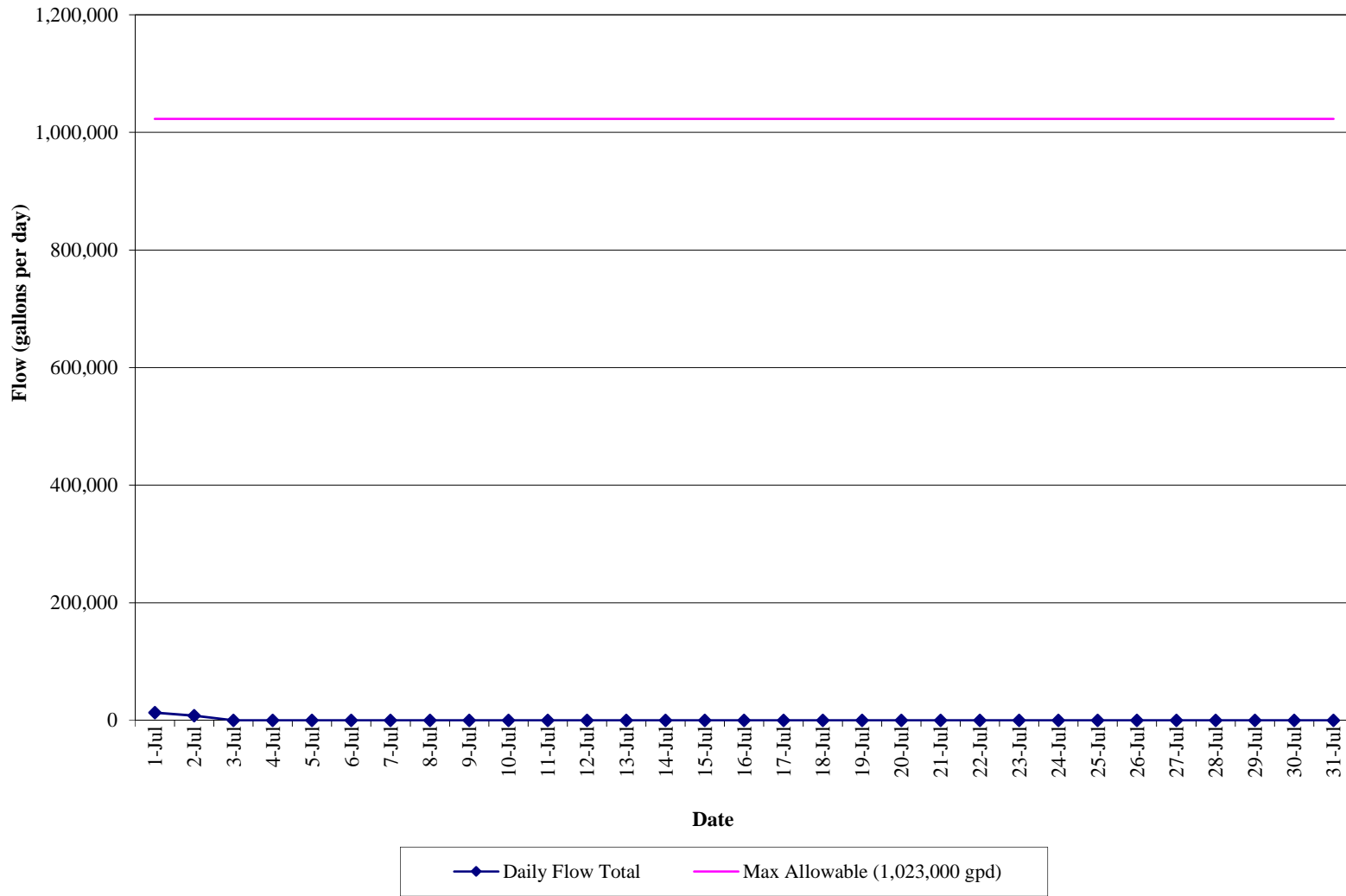
1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The pH of the effluent sample collected on June 20, 2018 was 6.8.

2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.

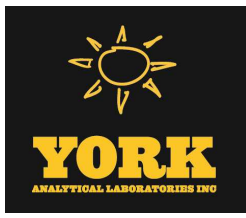
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.

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

**Effluent Flow Data
(July 1, 2018 to July 31, 2018)**



APPENDIX I
JULY 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: 07/11/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0079

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/11/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0079

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 July 03, 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>
18G0079-01	WQ070218:1425 NP2-6	Water	07/02/2018	07/03/2018
18G0080-01	WQ070218:1430 NP2-10	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0079

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: 07/11/2018





Sample Information

Client Sample ID: WQ070218:1425 NP2-6

York Sample ID: 18G0079-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0079	31401451.000 task 01.00	Water	July 2, 2018 2:25 pm	07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 18:09	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS



Sample Information

Client Sample ID: WQ070218:1425 NP2-6

York Sample ID: 18G0079-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0079

31401451.000 task 01.00

Water

July 2, 2018 2:25 pm

07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS



Sample Information

Client Sample ID: WQ070218:1425 NP2-6

York Sample ID: 18G0079-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0079

31401451.000 task 01.00

Water

July 2, 2018 2:25 pm

07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
127-18-4	Tetrachloroethylene	2.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:09	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 18:09	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.9 %	69-130
2037-26-5	Surrogate: Toluene-d8	92.5 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	96.8 %	79-122



Sample Information

Client Sample ID: WQ070218:1430 NP2-10

York Sample ID: 18G0080-01

<u>York Project (SDG) No.</u> 18G0080	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:30 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 18:41	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS



Sample Information

Client Sample ID: WQ070218:1430 NP2-10

York Sample ID: 18G0080-01

<u>York Project (SDG) No.</u> 18G0080	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:30 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
67-64-1	Acetone	1.0	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS



Sample Information

Client Sample ID: WQ070218:1430 NP2-10

York Sample ID: 18G0080-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0080

31401451.000 task 01.00

Water

July 2, 2018 2:30 pm

07/03/2018

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	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 18:41	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 18:41	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %	69-130
2037-26-5	Surrogate: Toluene-d8	93.7 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	96.8 %	79-122

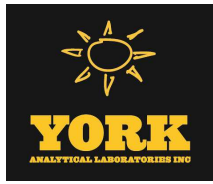
Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

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

Client Sample ID: WQ070218:1430 NP2-10

York Sample ID: 18G0080-01

<u>York Project (SDG) No.</u> 18G0080	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:30 pm	<u>Date Received</u> 07/03/2018
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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	2.50		mg/L	0.0222	1	EPA 200.7	07/10/2018 09:18	07/10/2018 16:00	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	0.127		mg/L	0.0222	1	EPA 6010C	07/05/2018 10:47	07/05/2018 12:41	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	114		mg/L	10.0	1	SM 2540C	07/09/2018 20:18	07/09/2018 20:18	TJM
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



Analytical Batch Summary

Batch ID: BG80196 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/05/18
BG80196-BLK1	Blank	07/05/18
BG80196-BS1	LCS	07/05/18

Batch ID: BG80246 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0079-01	WQ070218:1425 NP2-6	07/06/18
18G0080-01	WQ070218:1430 NP2-10	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18

Batch ID: BG80329 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/10/18
BG80329-BLK1	Blank	07/10/18
BG80329-BS1	LCS	07/10/18

Batch ID: BG80396 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/09/18
BG80396-BLK1	Blank	07/09/18



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 BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								



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 BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130				
Surrogate: Toluene-d8	9.64		"	10.0		96.4	81-117				
Surrogate: p-Bromofluorobenzene	9.87		"	10.0		98.7	79-122				

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168			Low Bias	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BG80246 - EPA 5030B

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.44</i>		<i>"</i>	<i>10.0</i>		<i>94.4</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)											
										Prepared & Analyzed: 07/06/2018	
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BG80246 - EPA 5030B

LCS Dup (BG80246-BSD1)

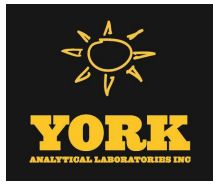
Prepared & Analyzed: 07/06/2018

p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133		2.51	30
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136		4.71	30
sec-Butylbenzene	8.93		"	10.0		89.3	79-137		4.92	30
Styrene	10.3		"	10.0		103	67-132		1.45	30
tert-Butylbenzene	9.04		"	10.0		90.4	77-138		3.59	30
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.0954	30
Toluene	9.77		"	10.0		97.7	80-127		2.53	30
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.97	30
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131		1.83	30
Trichloroethylene	9.75		"	10.0		97.5	82-128		0.617	30
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.17	30
Vinyl Chloride	9.80		"	10.0		98.0	58-145		3.21	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>9.62</i>		<i>"</i>	<i>10.0</i>		<i>96.2</i>	<i>81-117</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.31</i>		<i>"</i>	<i>10.0</i>		<i>93.1</i>	<i>79-122</i>			



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

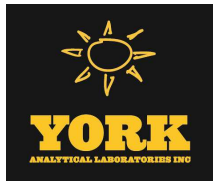
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80196 - EPA 3015A											
Blank (BG80196-BLK1)								Prepared & Analyzed: 07/05/2018			
Iron - Dissolved	ND	0.0222	mg/L								
LCS (BG80196-BS1)								Prepared & Analyzed: 07/05/2018			
Iron - Dissolved	1.20		ug/mL	1.00		120	80-120				
Batch BG80329 - EPA 200.7											
Blank (BG80329-BLK1)								Prepared & Analyzed: 07/10/2018			
Iron	ND	0.0222	mg/L								
LCS (BG80329-BS1)								Prepared & Analyzed: 07/10/2018			
Iron	1.12		ug/mL	1.00		112	85-115				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80396 - % Solids Prep											
Blank (BG80396-BLK1)										Prepared & Analyzed: 07/09/2018	
Total Dissolved Solids	ND	10.0	mg/L								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0079-01	WQ070218:1425 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0080-01	WQ070218:1430 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

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.

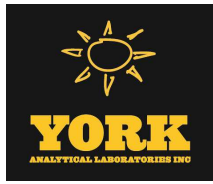
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

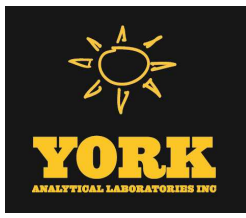
Certification for pH is no longer offered by NYDOH ELAP.

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.

APPENDIX II
JULY 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: 07/10/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0081

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/10/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0081

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 July 03, 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>
18G0081-01	WQ070218:1420 NP1-1-2	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0081

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: 07/10/2018





Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2

York Sample ID: 18G0081-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0081	31401451.000 task 01.00	Water	July 2, 2018 2:20 pm	07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:13	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS



Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2

York Sample ID: 18G0081-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0081

31401451.000 task 01.00

Water

July 2, 2018 2:20 pm

07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
67-66-3	Chloroform	0.28	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS



Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2

York Sample ID: 18G0081-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0081

31401451.000 task 01.00

Water

July 2, 2018 2:20 pm

07/03/2018

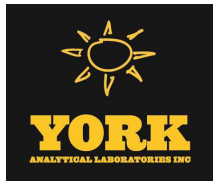
Volatile Organics, 8260 List - Low Level

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
127-18-4	Tetrachloroethylene	0.22	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:13	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:13	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	92.5 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	96.0 %	79-122								



Analytical Batch Summary

Batch ID: BG80246

Preparation Method: EPA 5030B

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0081-01	WQ070218:1420 NP1-1-2	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18



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 BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								



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 BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.5		"	10.0		105	69-130				
<i>Surrogate: Toluene-d8</i>	9.64		"	10.0		96.4	81-117				
<i>Surrogate: p-Bromofluorobenzene</i>	9.87		"	10.0		98.7	79-122				

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168			Low Bias	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BG80246 - EPA 5030B

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.44</i>		<i>"</i>	<i>10.0</i>		<i>94.4</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)											
										Prepared & Analyzed: 07/06/2018	
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

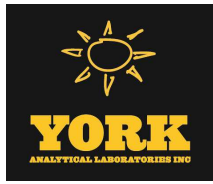
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit

Batch BG80246 - EPA 5030B

LCS Dup (BG80246-BSD1)

Prepared & Analyzed: 07/06/2018

p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133		2.51	30
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136		4.71	30
sec-Butylbenzene	8.93		"	10.0		89.3	79-137		4.92	30
Styrene	10.3		"	10.0		103	67-132		1.45	30
tert-Butylbenzene	9.04		"	10.0		90.4	77-138		3.59	30
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.0954	30
Toluene	9.77		"	10.0		97.7	80-127		2.53	30
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.97	30
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131		1.83	30
Trichloroethylene	9.75		"	10.0		97.5	82-128		0.617	30
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.17	30
Vinyl Chloride	9.80		"	10.0		98.0	58-145		3.21	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>9.62</i>		<i>"</i>	<i>10.0</i>		<i>96.2</i>	<i>81-117</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.31</i>		<i>"</i>	<i>10.0</i>		<i>93.1</i>	<i>79-122</i>			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0081-01	WQ070218:1420 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

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.

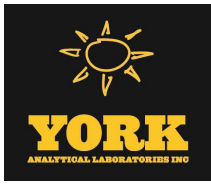
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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) 325-0166

Field Chain-of-Custody Record

York Project No. 18G0081

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.

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: <u>WSP USA</u>	SAME <input checked="" type="checkbox"/>	Name: _____		8270 or 625		31401451.000 task		RUSH-Same Day		Summary Report	
Address: <u>4 Research Drive</u>	SAME <input checked="" type="checkbox"/>	Company: _____		STARS list		01.00		RUSH-Next Day		QA Report	
Suite: <u>301, Shelton CT 06484</u>		Address: _____		BN Only		Purchase Order #		RUSH-Two Day		CT RCP	
Phone: <u>203.929.8555</u>		E-mail: _____		Acts Only		31401451.000 task		RUSH-Three Day		CT RCP DOA/DUE Pkg	
Contact: <u>Tunde Sandor</u>		Matrix Codes		PAH list		01.00		RUSH-Four Day		NY ASP A Package	
E-mail: <u>tunde.sandor@wsp.com</u>		S - soil		TAGM list		Samples from CT_NY_x_NJ_		Standard (5-7day)		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.

Volatiles	Semi-Vols. Pesticides/Herb	Metals	Misc. Org.	Full Lists
8260 full	RCRA8	TPH GRO	TPH GRO	Pri.Poll.
624	STARS list	TPH DRO	TPH DRO	TCL Organics
STARS list	8081 Pest	CT ETPH	CT ETPH	TAL Met/CN
BTEX	8151 Herb	NY 310-13	NY 310-13	Full TCLP
MTBE	Acts Only	TAGM list	TAGM list	Full App IX
TCL list	PAH list	NIDEP list	NIDEP list	Part 360-Rotire
Oxygenates	App. IX	Air TO14A	Air TO14A	Part 360-Respire
TAGM list	Site Spec.	Air TO15	Air TO15	Part 360-Respire
CT RCP list	SPLP or TCLP	Air STARS	Air STARS	Part 360-Respire
CT RCP list	TCLP Pest	SPLP or TCLP	SPLP or TCLP	Part 360-Respire
Atom. only	TCLP Herb	SPLP or TCLP	SPLP or TCLP	Part 360-Respire
Halogen. only	NIDEP list	Inhib. Methk	Air TICs	NVCDPE/Seaw
App. IX list	App. IX	LIST Below	Methane	NYSDEC/Seaw
8021B list	SPLP or TCLP	Helium	Helium	TAGM

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) _____
 Name (printed) EVAN FOSTER

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
<u>18070218.1420 NPI-2</u>	<u>7-2-18, 1420</u>	<u>GW</u>	<u>VOCs 8260 full plus freon 113</u>	<u>300's</u>

Comments:

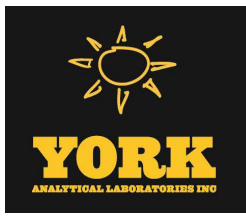
4°C _____ Frozen _____ HCl _____ MeOH _____ HNO₃ _____ H₂O₂ _____ NaOH _____
 ZnAc _____ Ascorbic Acid _____ Other _____

Preservation (check all applicable):
 Field Filtered Lab to Filter

Special Instructions:
 Samples Requisitioned By: [Signature] Date/Time: 7-3-18 800
 Samples Requisitioned By: [Signature] Date/Time: 7-3-18 13:34
 Samples Requisitioned By: [Signature] Date/Time: 7-3-18 13:34

Temperature on Receipt: 2.3°C

[Signature] 7/3/18 12:25



Technical Report

prepared for:

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

Report Date: 07/10/2018
Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/10/2018
Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

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 July 03, 2018 and listed below. The project was identified as your project: **31401451.00 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>
18G0083-01	WQ070218:1350 FRW-1	Water	07/02/2018	07/03/2018
18G0083-02	WQ070218:1355 FRW-2	Water	07/02/2018	07/03/2018
18G0083-03	WQ070218:1400 FRW-3	Water	07/02/2018	07/03/2018
18G0083-04	WQ070218:1405 FRW-4	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0083

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: 07/10/2018





Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 1:50 pm

07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
156-59-2	cis-1,2-Dichloroethylene	0.60		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 1:50 pm

07/03/2018

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
127-18-4	Tetrachloroethylene	22		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-01-6	Trichloroethylene	0.66		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:45	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.6 %			69-130						
2037-26-5	Surrogate: Toluene-d8	92.7 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	99.6 %			79-122						

Nitrate as N

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0083, 31401451.00 task 01.00, Water, July 2, 2018 1:50 pm, 07/03/2018

Sample Prepared by Method: EPA 300

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 14797-55-8 Nitrate as N, 0.870, mg/L, 0.0500, 1, EPA 300.0, 07/03/2018 20:16, 07/03/2018 20:16, AD. Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 14797-65-0 Nitrite as N, ND, mg/L, 0.0500, 1, EPA 300.0, 07/03/2018 20:16, 07/03/2018 20:16, AD. Certifications: NELAC-NY10854,CTDOH,PADEP

Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0083, 31401451.00 task 01.00, Water, July 2, 2018 1:55 pm, 07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various organic compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc. All results are ND.



Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 1:55 pm

07/03/2018

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
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS



Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 1:55 pm

07/03/2018

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
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
127-18-4	Tetrachloroethylene	3.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS



Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 1:55 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:17	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.0 %			69-130						
2037-26-5	Surrogate: Toluene-d8	92.5 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	98.2 %			79-122						

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.0820		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/03/2018 20:34	07/03/2018 20:34	AD

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	07/03/2018 20:34	07/03/2018 20:34	AD

Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:00 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:00 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 2:00 pm

07/03/2018

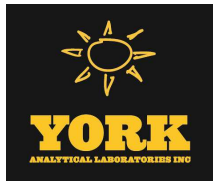
Volatile Organics, 8260 List - Low Level

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
156-59-2	cis-1,2-Dichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 2:00 pm

07/03/2018

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	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
127-18-4	Tetrachloroethylene	49		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-01-6	Trichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:48	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.2 %			69-130						
2037-26-5	Surrogate: Toluene-d8	92.9 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	104 %			79-122						

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615									
www.YORKLAB.com	(203) 325-1371									
						132-02 89th AVENUE				
						FAX (203) 357-0166				
								RICHMOND HILL, NY 11418		
								ClientServices@		



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:00 pm	<u>Date Received</u> 07/03/2018
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Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	1.02		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:52	07/03/2018 20:52	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:52	07/03/2018 20:52	AD
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:05 pm	<u>Date Received</u> 07/03/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 2:05 pm

07/03/2018

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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 2:05 pm

07/03/2018

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
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0083

31401451.00 task 01.00

Water

July 2, 2018 2:05 pm

07/03/2018

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
127-18-4	Tetrachloroethylene	1.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 21:20	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.4 %	69-130
2037-26-5	Surrogate: Toluene-d8	92.7 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122



Analytical Batch Summary

Batch ID: BG80217

Preparation Method: EPA 300

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/03/18
18G0083-02	WQ070218:1355 FRW-2	07/03/18
18G0083-03	WQ070218:1400 FRW-3	07/03/18
BG80217-BLK1	Blank	07/03/18
BG80217-BS1	LCS	07/03/18

Batch ID: BG80246

Preparation Method: EPA 5030B

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/06/18
18G0083-02	WQ070218:1355 FRW-2	07/06/18
18G0083-03	WQ070218:1400 FRW-3	07/06/18
18G0083-04	WQ070218:1405 FRW-4	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18



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 BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								



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

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

Batch BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

o-Xylene	ND	0.50	ug/L							
p- & m- Xylenes	ND	1.0	"							
p-Isopropyltoluene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Tetrachloroethylene	ND	0.50	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethylene	ND	0.50	"							
trans-1,3-Dichloropropylene	ND	0.50	"							
Trichloroethylene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl Chloride	ND	0.50	"							
Xylenes, Total	ND	1.5	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.5		"	10.0		105	69-130			
<i>Surrogate: Toluene-d8</i>	9.64		"	10.0		96.4	81-117			
<i>Surrogate: p-Bromofluorobenzene</i>	9.87		"	10.0		98.7	79-122			

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126			
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136			
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165			
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123			
1,1-Dichloroethane	10.9		"	10.0		109	82-129			
1,1-Dichloroethylene	10.4		"	10.0		104	68-138			
1,1-Dichloropropylene	10.8		"	10.0		108	83-133			
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136			
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128			
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137			
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132			
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147			
1,2-Dibromoethane	10.8		"	10.0		108	83-124			
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123			
1,2-Dichloroethane	11.5		"	10.0		115	73-132			
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126			
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131			
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122			
1,3-Dichloropropane	10.6		"	10.0		106	81-125			
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124			
2,2-Dichloropropane	10.8		"	10.0		108	56-150			
2-Chlorotoluene	9.54		"	10.0		95.4	79-130			
2-Hexanone	11.2		"	10.0		112	51-146			
4-Chlorotoluene	9.53		"	10.0		95.3	79-128			
Acetone	13.7		"	10.0		137	14-150			
Benzene	11.0		"	10.0		110	85-126			
Bromobenzene	9.43		"	10.0		94.3	78-129			
Bromochloromethane	11.3		"	10.0		113	77-128			
Bromodichloromethane	10.2		"	10.0		102	79-128			
Bromoform	10.5		"	10.0		105	78-133			
Bromomethane	4.27		"	10.0		42.7	43-168			Low Bias



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BG80246 - EPA 5030B

LCS (BG80246-BS1)

Prepared & Analyzed: 07/06/2018

Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.44</i>		<i>"</i>	<i>10.0</i>		<i>94.4</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)											
Prepared & Analyzed: 07/06/2018											
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

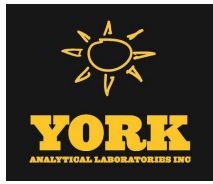
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result	%REC				RPD		

Batch BG80246 - EPA 5030B

LCS Dup (BG80246-BSD1)

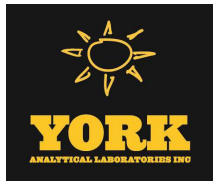
Prepared & Analyzed: 07/06/2018

p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133			2.51	30	
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136			4.71	30	
sec-Butylbenzene	8.93		"	10.0		89.3	79-137			4.92	30	
Styrene	10.3		"	10.0		103	67-132			1.45	30	
tert-Butylbenzene	9.04		"	10.0		90.4	77-138			3.59	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131			0.0954	30	
Toluene	9.77		"	10.0		97.7	80-127			2.53	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132			2.97	30	
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131			1.83	30	
Trichloroethylene	9.75		"	10.0		97.5	82-128			0.617	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139			3.17	30	
Vinyl Chloride	9.80		"	10.0		98.0	58-145			3.21	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>					
<i>Surrogate: Toluene-d8</i>	<i>9.62</i>		<i>"</i>	<i>10.0</i>		<i>96.2</i>	<i>81-117</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.31</i>		<i>"</i>	<i>10.0</i>		<i>93.1</i>	<i>79-122</i>					



Anions by Ion Chromatography - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			
Batch BG80217 - EPA 300											
Blank (BG80217-BLK1)										Prepared & Analyzed: 07/03/2018	
Nitrate as N	ND	0.0500	mg/L								
Nitrite as N	ND	0.0500	"								
LCS (BG80217-BS1)										Prepared & Analyzed: 07/03/2018	
Nitrate as N	9.90	0.0500	mg/L	10.0		99.0		90-110			
Nitrite as N	10.2	0.0500	"	10.0		102		90-110			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0083-01	WQ070218:1350 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-02	WQ070218:1355 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-03	WQ070218:1400 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-04	WQ070218:1405 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

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

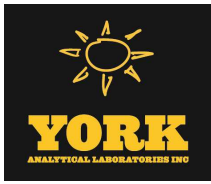
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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





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Field Chain-of-Custody Record

Page 1 of 1

York Project No. 18G0083

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.

YOUR Information		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: <u>WSP USA</u>	<input checked="" type="checkbox"/> SAME	Name: _____	Company: _____	Address: _____	E-mail: _____	8270 or 625 STARS list	8082PCB	31401451.000 task	RUSH-Same Day	Summary Report	X, PDF
Address: <u>4 Research Drive</u>		Company: _____	Address: _____			BN Only	8151 Herb	01.00	RUSH-Next Day	QA Report	X, PDF
Phone: <u>203.929.8555</u>		Address: _____				Acids Only	CT RCP	31401451.000 task	RUSH-Two Day	CT RCP	
Contact: <u>Tunde Sandor</u>						PAH list	App. IX	01.00	RUSH-Three Day	CT RCP DQA/DUE Pkg	
E-mail: <u>tunde.sandor@wsp.com</u>						TAGM list	Site Spec.		RUSH-Four Day	NY ASP A 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)

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
<u>WQ070218; 1350 FRW-1</u>	<u>7-2-18; 1350</u>	<u>GW</u>	<u>VOCs 8260 full plus freon 113; Nitrate/Nitrite</u>	<u>300a; 1 Plastic</u>
<u>1355 FRW-2</u>	<u>1355</u>	↓	↓	<u>300a; 1 Plastic</u>
<u>1400 FRW-3</u>	<u>1400</u>	↓	↓	<u>300a; 1 Plastic</u>
<u>1405 FRW-4</u>	<u>1405</u>	↓	↓	

Comments:

Preservation (check all applicable):
 4°C Frozen HCl MeOH HNO₃ NaOH
 ZnAc Ascorbic Acid Other

Special Instructions:
 Field Filtered Lab to Filter

Samples Relinquished By: WSP Date/Time: 7-3-18 8:00
 Samples Relinquished By: WSP Date/Time: 7-3-18 13:34

Samples Relinquished By: _____ Date/Time: _____

Temperature on Receipt: 2.3 °C

Rec'd 7/3/18/2023