



PROJECT STATUS MEMORANDUM

TO: Pamela Tames, USEPA

FROM: Mark M. Goldberg, P.E.
Tunde H. Komuves-Sandor, PG, CPG

SUBJECT: Rowe Industries Superfund Site
NYS Site ID No. 152106
Groundwater Recovery and Treatment System
DRAFT February 2019 Status Report

DATE: April 8, 2019

WSP USA (WSP) commenced operation of the Full-Scale Pump and Treat (FSP&T) groundwater remediation system at the above-referenced site on December 17, 2002. Starting in September 2008, the groundwater recovered by the Focus Pump and Treat (FP&T) system was routed to the FSP&T system for treatment. As of 2014, the FSP&T system only treats water extracted from RW-2 and FRW-1, 2, 3 and 4; the other FSP&T recovery wells (RW-1, 3, 4, 5, 6, 7, 8, and 9) have been shut down with USEPA approval after achieving remediation standards. This status report presents a summary of performance, operation and maintenance for both systems and monitoring activities for the site from February 1, 2019 through February 28, 2019. The report includes a summary of system performance parameters, system operation parameters, and analytical results for groundwater, system effluent samples, and air quality results.

SUMMARY OF SYSTEM PERFORMANCE AND OPERATION

(February 1, 2019 through February 28, 2019)

- | | |
|---|--------------------------|
| 1. Hours of operation during the reporting period: | 415 hours (61.8%) |
| 2. Alarm conditions during the reporting period: | See Table 1 |
| 3. Were the SPDES VOC discharge permit criteria achieved: | Yes, (see Table 2) |
| 4. Total volume of water pumped during the reporting period: | 880,237 gal. |
| 5. Was the system effluent flow below the SPDES limit of 1,023,000 gpd: | Yes, (see Graph 1) |
| 6. Mass of VOCs recovered during the reporting period: | 0.05 pound (see Graph 2) |
| 7. Cumulative mass of VOCs recovered since startup on 12/17/02: | 229.7 pounds |
- (calculations can be provided upon request)



PUMP AND TREAT SYSTEM STATUS SUMMARY

The following table summarizes recovery well parameters for the operating recovery wells.

Well	Volume pumped (gal)	Total VOC Concentration (ug/L)
RW-2 ^{1/}	596,328	0.7
FRW-1 ^{2/}	8,587	61.8
FRW-2 ^{2/}	25,514	18.2
FRW-3 ^{2/}	41,575	81.8
FRW-4 ^{2/}	103,029	1.4

^{1/} The above table summarizes the parameters for RW-2 from February 1 to February 28, 2019.

^{2/} The above table summarizes the parameters for the FRWs from February 1, 2019 to March 1, 2019. The FRW flow meters did not work properly in February so the estimated volume of water pumped was calculated by using the FP&T discharge flow meter reading for February and the flow readings for the FRWs in January 2019. The flow meter issue will be investigated.

On February 18, 2019, a high-level alarm in the EQ tank occurred. Initial troubleshooting suggested the transfer pump was not activating when the water level in the EQ tank reached the “pump on” level. No clogs were observed and the transfer pump operated in manual (hand) mode without issue. The system was left off until further troubleshooting could be completed in March. Additional details about system maintenance work are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

February 2019 groundwater quality sampling was completed for the following wells:

- Monthly groundwater samples were collected from RW-2, FRW-1, FRW-2, FRW-3 and FRW-4 on February 1, 2019

Tables 3 to 7 present a summary of the quality results for water samples collected from downgradient recovery well RW-2 and FRW-1, 2, 3, and 4. Graphs 3 to 7 present PCE concentrations for samples from RW-2 and FRW-1, 2, 3, and 4 for the last 24 months. Laboratory analytical reports for the water samples collected from the RWs are included as Appendix II.

The PCE, TCE, cis-DCE, VC and TCA concentrations in the groundwater sample collected from RW-2 were below the respective ARARs; concentrations at RW-2 have been below the ARARs for over eight years.

PCE concentrations in FRW-1, 2 and 3 remain above the ARAR in February. The PCE concentration in the groundwater sample collected at FRW-4 was below the ARAR in February. The TCE, cis-DCE, TCA and VC concentrations in the groundwater samples collected at FRW-1, 2, 3 and 4 were below their respective ARARs in February.



Groundwater samples from RW-2 and the FRWs will continue to be collected and analyzed monthly.

FUTURE O&M ACTIVITIES

O&M activities scheduled for March 2019 include:

- Investigate and troubleshoot the high-level alarm for the EQ tank;
- Investigate FRW flow meter issue;
- Conduct semi-annual groundwater monitoring event; and
- normal bi-weekly/monthly O&M activities.

MMG:cmm

Attachments

cc: Brian Shuttleworth - Kraft Heinz Foods Company (as successor to Kraft Foods Group, Inc.) -.pdf
Kevin Kyrias-Gann, Ramboll -.pdf
Rebecca Spellissy, Ramboll -.pdf
Payson Long, NYSDEC-.pdf
Chief-Operation Maintenance and Support Section, NYSDEC-.pdf
Anthony Leung, RWM, R-1, NYSDEC-.pdf
Sundy Schermeyer, Town of Southampton, Town Clerk-.pdf
Mark Sergott, NYSDOH-.pdf

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TABLES

TABLE 1

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

**MAINTENANCE LOG
(February 1, 2019 through February 28, 2019)**

Date	Time	System Changes/Modifications	Personnel
2/1/19		Changed the multi-bag filter bags (400 um) in Banks 1 and 2, seven of eight housings used. Banks 1 and 2 left open. Bank 3 closed.	EF
		Changed RW-2 flow setpoint from 27 gpm to 25 gpm to keep percent motor speed below 100%. This action is completed to help preserve the pump motor operation until rehabilitation and maintenance can be completed during the next maintenance event scheduled in late April	EF
		Iron fouling removed from flow meter paddle wheels for FRW wells.	EF
2/15/19	10:00 am	FRW flow meters stop working sometime between 2/1 and 2/15 for an unknown reason. This issue will be investigated. Iron fouling removed from flow meter paddle wheels for FRW wells. Restarted FRW wells.	EF
		Desiccant bags are placed in the RW-2 control panel to reduce moisture.	EF
2/18/19	7:08 am	High level alarm in EQ tank; systems shut down.	
	8:30 am	Initial diagnosis of alarm condition suggests that the transfer pump is not shutting off when the “pump on” level is reached in the EQ tank. The transfer pump operates in manual mode and water was pumped out of the EQ tank and subsequently treated. The system alarm was cleared and restarted and both transfer pumps did not turn on when the “pump on” level was reached again. Leave the systems off pending further troubleshooting with EF on 3/1/19.	JF
2/25/19	2:03 pm	A power failure alarm and an RW-6 fault alarm occur. The systems were already shut down.	

Notes:

EF	Evan Foster, WSP USA
JF	Jamie Forrester, WSP USA

TABLE 2

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

Effluent Water Quality Results

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

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

---: Not established

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

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

ND: Not detected NA: Not Analyzed

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

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

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

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

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

Notes:

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

TABLE 3

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

Recovery Well Water Quality Results

Recovery Well ^{1/}	Date Sampled	PCE (ug/L)	TCE (ug/L)	TCA (ug/L)	Chloroform (ug/L)	MTBE (ug/L)	1,1-Dichloro-ethane (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	1,1-Dichloro-ethene (ug/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	Benzene (ug/L)	m,p-Xylene (ug/L)	o-Xylene (ug/L)
	ARAR's	5	5	5	7	NE	5	5	5	5	NE	NE	5	5
RW-2	2-Feb-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-17	0.28 J	0.47 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	7-Apr-17	0.53	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	11-May-17	0.54	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.28 J	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Jun-17	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	6-Jul-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Aug-17	0.23 J	0.26 J	ND<0.5	0.24 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Sep-17	0.23 J	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Oct-17	0.24 J	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Nov-17	0.31 J	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Dec-17	0.27 J	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	3-Jan-18	0.28 J	0.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Feb-18	0.33 J	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-18	0.41 J	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Apr-18	0.28 J	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-May-18	0.32 J	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Jun-18	0.21 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Jul-18	0.22 J	ND<0.5	ND<0.5	0.28 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	28-Aug-18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	21-Sep-18	0.370	0.260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Oct-18	0.250	ND<0.5	ND<0.5	0.370	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Nov-18	ND<0.5	ND<0.5	ND<0.5	0.290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Dec-18	0.300 C,S	0.380	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	3-Jan-19	0.320	0.310	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Feb-19	0.380	0.360 Q	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5

PCE: Tetrachloroethylene
MTBE: Methyl-tertiary-butyl-ether

TCE: Trichloroethylene
NS: Not sampled

TCA: 1,1,1-Trichloroethane

ND: Not detected

<#: Less than method detection limit

ug/L: Micrograms per liter

-: Not analyzed

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.

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

S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration.

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

ARAR's are chemical specific aquifer restoration goals for ground water at the Former Rowe Industries Superfund Site.

NE indicates that the ARAR goal was not established for this compound by the EPA.

Bold values indicate an exceedence of the ARAR standard established for the site.

^{1/} In September 2016, the EPA granted approval to discontinue groundwater sampling at RW-1, RW-5, RW-7, RW-8 and RW-9.

TABLE 4

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

Recovery Well FRW-1 VOC Concentrations, micrograms per liter

FRW-1										
Date	PCE	TCE	cis12DCE	VC	TCA	11DCA	124TCB	Toluene	Bromomethane	Acetone
ARARs	5	5	5	2 ^U	5	5	5 ^U	5	5 ^U	NE
2-Feb-17	460	8.5 C	20	ND<0.5	3.5	0.59 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 and February 22, 2017										
1-Mar-17	110	3.9	6.3	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017										
7-Apr-17	240	3.8	2.2	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3 S,J
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017										
3-May-17	200	2.0	2.3	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0
1-Jun-17	94	2.5	4.5	ND<0.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017										
6-Jul-17	3.6	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 31 to August 28, 2017										
1-Aug-17 ^{2/}	16	0.41 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Sep-17	34	0.93	2.9	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017										
4-Oct-17	56	1.7	7.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017										
1-Nov-17	72	1.3	1.7	ND<0.5	0.37 C,J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to December 5, 2017										
5-Dec-17	55	1.5	3.4	ND<0.5	0.4 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-1 was off from December 6 to 12 and December 24, 2017 to February 9, 2018										
1-Feb-18	63	7.4	28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	110	2.7	1.8	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018										
2-Apr-18	83	0.31 J	ND<0.5	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2 C,S,J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018										
2-May-18	97	0.86	0.46 J	ND<0.5	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018										
20-Jun-18	25	0.76	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	22	0.66	0.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018										
28-Aug-18 ³⁴	7.26	4.16	9.05 C	0.220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.1 I
21-Sep-18	20.2	1.25	2.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Oct-18	1.19	ND<0.5	0.280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 27 to October 29, 2018										
1-Nov-18	5.12	0.780	3.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-18	43.0 C,S	1.06	0.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
3-Jan-19	18.8	0.450	0.290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019										
1-Feb-19	61.2	0.550	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019										

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.
 2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.
 3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 278 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site. Turned wells on only long enough to collect sample.
 4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.
- J : Analyte 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.
- B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
- C = CCV-E: The value reported is estimated. The value is estimated due to its behavior during continuing calibration verification.
- S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration (average RF>20%).
- I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
- ND: Not detected
- ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit

PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
TCA: 1,1,1-Trichloroethane
124TCB: 1,2,4-Trimethylbenzene

TCE: Trichloroethene
VC: Vinyl Chloride
11DCA: 1,1-Dichloroethane

TABLE 5

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

Recovery Well FRW-2 VOC Concentrations, micrograms per liter

FRW-2								
Date	PCE	TCE	cis12DCE	VC	TCA	Toluene	2-Hexanone	Acetone
ARARs	5	5	5	2 ^{1/}	5	5	NE	NE
2-Feb-17	100	10	39	1.4	0.63	ND<5.0	ND<0.5	2.2
The FRWs were off between February 20 to February 22, 2017								
1-Mar-17	40 C	1.0	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017								
7-Apr-17	93	2.6	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.1 S
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017								
3-May-17	68	11	9.3	ND<0.5	0.35 J	ND<0.5	ND<0.5	2.4
1-Jun-17	16	1.0	0.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRW-2 was off from June 7 to June 9 and from June 21 to 29, 2017								
6-Jul-17	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8 S,J
The FRWs were off from July 31 to August 28, 2017								
1-Aug-17 ^{2/}	7.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1 S
5-Sep-17	33	0.85	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017								
4-Oct-17	50	2.7	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.0
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017								
1-Nov-17	45	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017								
5-Dec-17	38	3.4	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018								
1-Feb-18	37	3.2	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8
1-Mar-18	48	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018								
2-Apr-18	140	1.2	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018								
2-May-18	29	0.92	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.6
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018								
20-Jun-18	3.8	1.4	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018								
28-Aug-18 ^{3/4}	ND<0.5	0.300	29.0 C	2.48	ND<0.5	0.510	ND<0.5	ND<2
21-Sep-18	11.9	1.83	14.5	0.730	ND<0.5	ND<0.5	ND<0.5	2.06
5-Oct-18	1.86	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 27 to October 29, 2018								
1-Nov-18	3.20	0.610	0.950	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-18	19.1 C,S	0.590	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.00 C
3-Jan-19	13.8	0.670	1.69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019								
1-Feb-19	16.2	0.980	1.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019								

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.
 2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.
 3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 204 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site. Turned wells on only temporarily to collect groundwater sample.
 4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.
- J : Analyte 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.
- B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
- C = CCV-E: The value reported is estimated. The value is estimated due to its behavior during continuing calibration
- S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration
- I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
- ND: Not detected

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene
VC: Vinyl chloride

TABLE 6

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

Recovery Well FRW-3 VOC Concentrations, micrograms per liter

FRW-3												
Date	PCE	TCE	cis12DCE	VC	11DCA	TCA	135TMB	IPB	NPB	Toluene	2-Hexanone	Acetone
ARARs	5	5	5	2 ^{1/}	5	5	5 ^{1/}	5 ^{1/}	5	5	NE	NE
2-Feb-17	18 C	3.7	24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	0.63 C	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 to February 22, 2017												
1-Mar-17	50	5.7	20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.99	0.64	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017												
7-Apr-17	65	5.0	41	1.4	ND<0.5	ND<0.5	ND<0.5	0.71	0.49	ND<0.5	ND<0.5	ND<2
FRW-3 was off from April 17 to April 26, 2017 and April 27 to May 11, 2017												
11-May-17	130	5.8	8.5	0.24 J	ND<0.5	0.35 J	ND<0.5	0.35 J	0.30 J	ND<0.5	ND<0.5	ND<2
FRW-3 was off from May 17 to June 1, 2017												
1-Jun-17	83	5.8	12	0.37 J	ND<0.5	ND<0.5	ND<0.5	0.38 J	0.38 J	ND<0.5	ND<0.5	1.0 C,J,B
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017												
6-Jul-17	3.4	0.70	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.4 S
The FRWs were off from July 31 to August 28, 2017												
1-Aug-17 ^{2/}	35	1.9	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6 S,J
5-Sep-17	15	1.7	6.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017												
4-Oct-17	21	6.0	15	1.2 C	ND<0.5	ND<0.5	ND<0.5	0.48 C,J	0.40 C,J	ND<0.5	ND<0.5	2.7
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017												
1-Nov-17	17	1.2	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.33 J	0.30 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017												
5-Dec-17	37	1.8	2.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.37 J	0.33 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018												
1-Feb-18	22	2.0	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	120	7.9	18	ND<0.5	0.26 J	0.65	ND<0.5	0.49 J	0.34 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018												
2-Apr-18	170	4.5	7.9	0.25 C,J	ND<0.5	0.71	ND<0.5	0.20 J	ND<0.5	ND<0.5	ND<0.5	1.2 C,S,J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018												
2-May-18	140	9.4	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018												
20-Jun-18	39	6.8	4.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.5 J
2-Jul-18	49	1.4	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018												
28-Aug-18 ^{3/}	6.16	0.990	20.3 C	0.840	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.77 I
21-Sep-18	19.6	2.99	19.8	2.04	ND<0.5	ND<0.5	ND<0.5	0.220 J	0.300 J	ND<0.5	ND<0.5	1.53
5-Oct-18	0.730	0.530	4.31	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 27 to October 29, 2018												
1-Nov-18	2.89	0.810	3.37	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-18	109 C,S	6.83	6.98	ND<0.5	ND<0.5	0.570	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.97 C
3-Jan-19	89.4	2.41	7.30	ND<0.5	ND<0.5	0.420	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019												
1-Feb-19	76.4	1.41	3.69	ND<0.5	ND<0.5	0.330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019												

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDCE ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

3. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

J : Analyte 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.

B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.

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

S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration (average RF>20%).

I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

ND: Not detected

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
11DCA: 1,1-Dichloroethane
135TMB: 1,3,5-Trimethylbenzene
NPB: n-Propylbenzene

TCE: Trichloroethene
VC: Vinyl Chloride
TCA: 1,1,1-Trichloroethane
IPB: Isopropylbenzene

TABLE 7

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

Recovery Well FRW-4 VOC Concentrations, micrograms per liter

FRW-4						
Date	PCE	TCE	cis12DCE	VC	TCA	Acetone
ARARs	5	5	5	2 ^U	5	NE
2-Feb-17	5.1 C	1.4	17	ND<0.5	0.27 J	ND<2
The FRWs were off between February 20 to February 22, 2017						
1-Mar-17	4.0 C	0.60	2.2	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017						
7-Apr-17	7.6	1.2	2.9	ND<0.5	ND<0.5	1.3 S,J
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017						
3-May-17	40	3.5	15	ND<0.5	0.42 J	2.1
1-Jun-17	8.8	0.5	2.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017						
6-Jul-17	0.27 J	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.1 S,J
The FRWs were off from July 31 to August 28, 2017						
1-Aug-17 ^{2J}	0.80	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.6 S,J
5-Sep-17	2.7	0.42 J	0.51	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017						
4-Oct-17	9.8	3.9	4.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017						
1-Nov-17	3.0	0.32 J	0.78	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017						
5-Dec-17	5.1	ND<0.5	1.0	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018						
1-Feb-18	21	2.5	7.0	ND<0.5	0.27 J	2.5 S
1-Mar-18	3.0	ND<0.5	0.47 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018						
2-Apr-18	3.2	ND<0.5	1.0	ND<0.5	0.32 J	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018						
2-May-18	19	ND<0.5	1.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018						
20-Jun-18	1.4	0.22 J	ND<0.5	ND<0.5	ND<0.5	1.5 J
2-Jul-18	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018						
28-Aug-18 ^{3,4}	ND<0.5	0.450	4.95 C	ND<0.5	ND<0.5	10.3 I
21-Sep-18	4.21	1.02	1.38	ND<0.5	ND<0.5	ND<2
5-Oct-18	0.260	ND<0.5	0.630	ND<0.5	ND<0.5	1.23 C,S
The FRWs were off from October 27 to October 29, 2018						
1-Nov-18	0.870	0.280	1.49	ND<0.5	ND<0.5	ND<2
5-Dec-18	2.36 C,S	0.45	0.650	ND<0.5	ND<0.5	ND<2
3-Jan-19	1.28	ND<0.5	0.960	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019						
1-Feb-19	1.22	ND<0.5	0.200	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019						

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 308 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site.

4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

J : Analyte 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.

B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.

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

S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration (average RF>20%).

I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

ND: Not detected

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

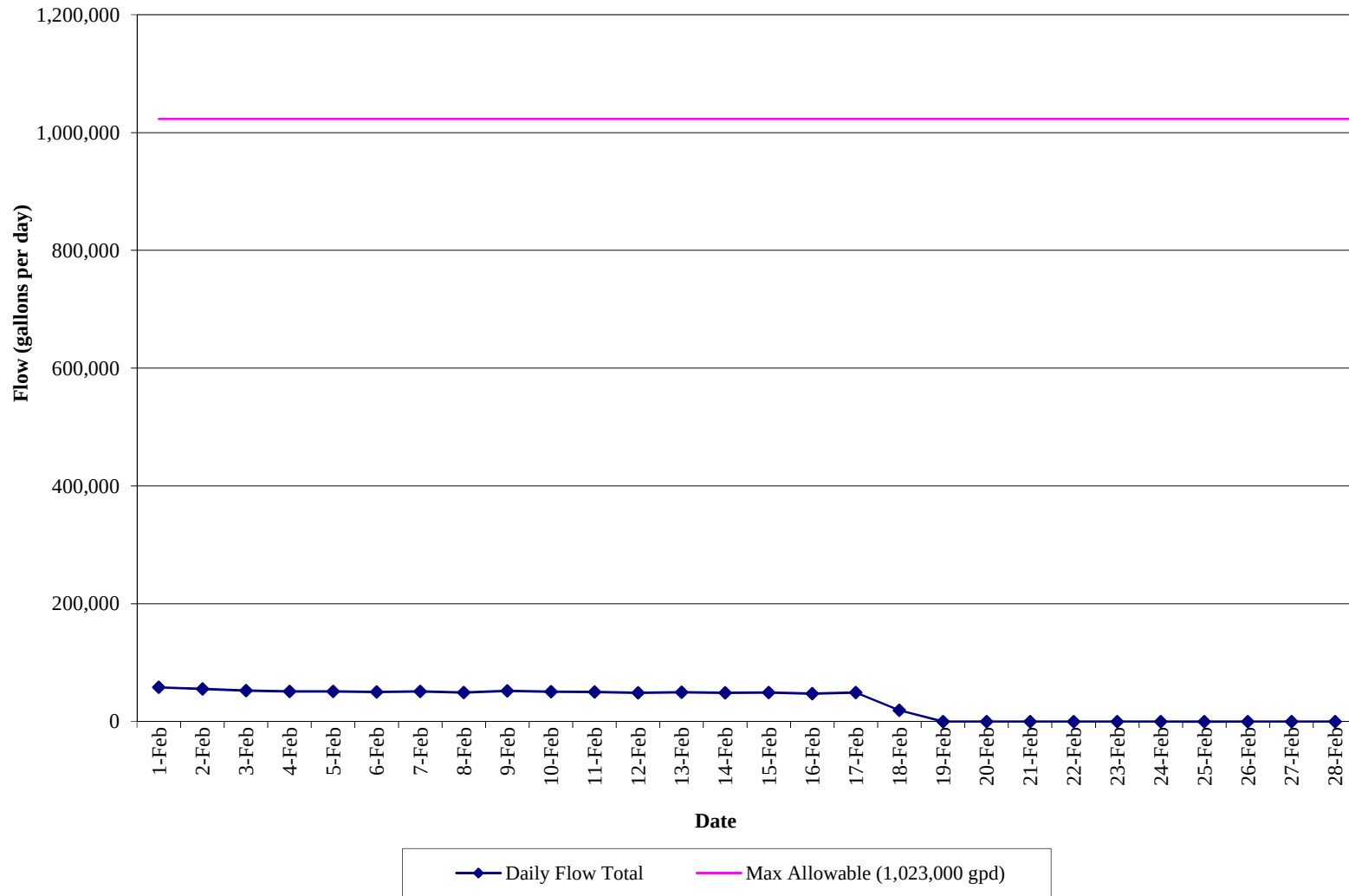
PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene
VC: Vinyl Chloride

GRAPHS

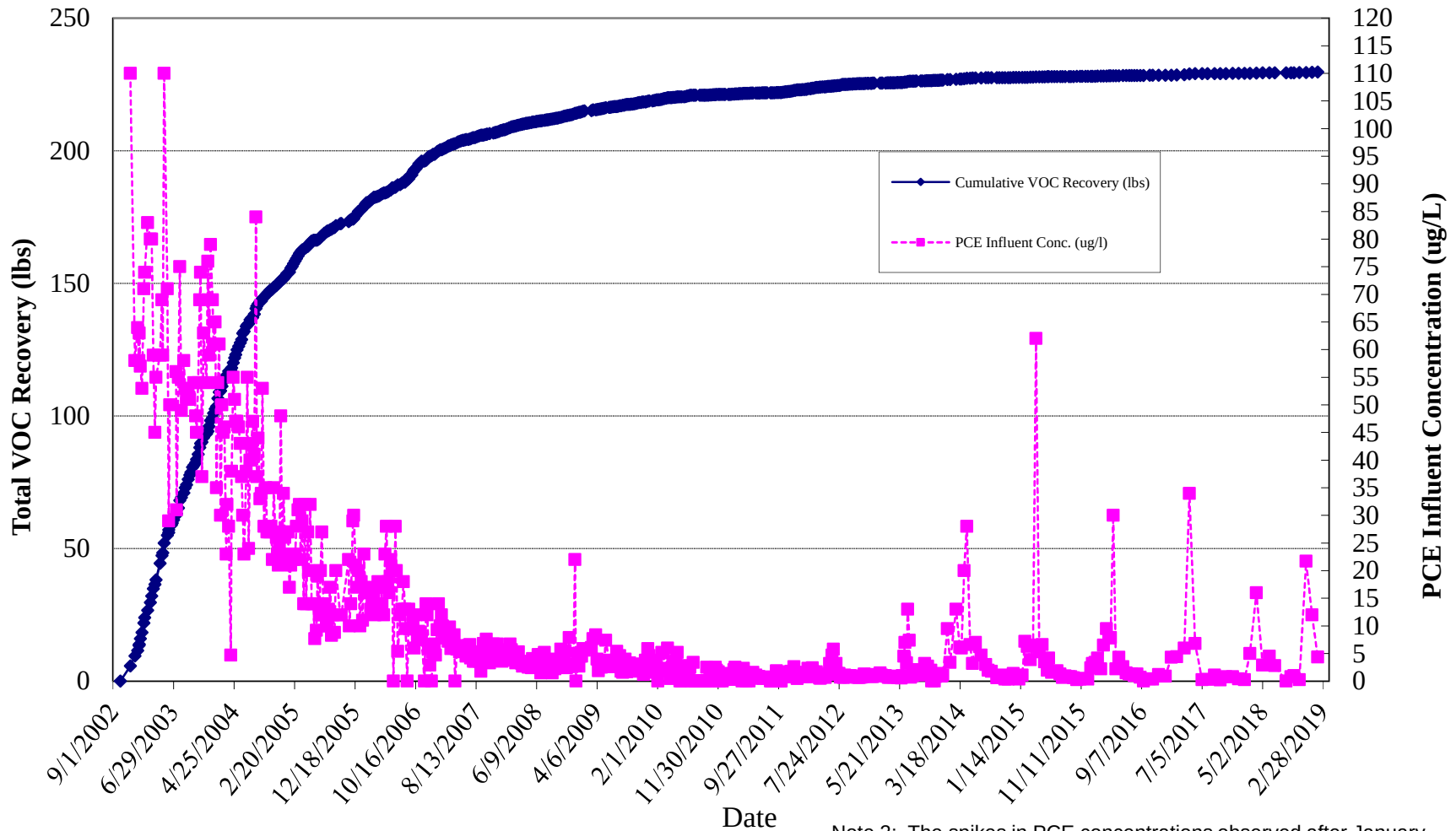
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

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



GRAPH 2
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T System Cumulative VOC Recovery and Influent PCE Concentraions vs. Time

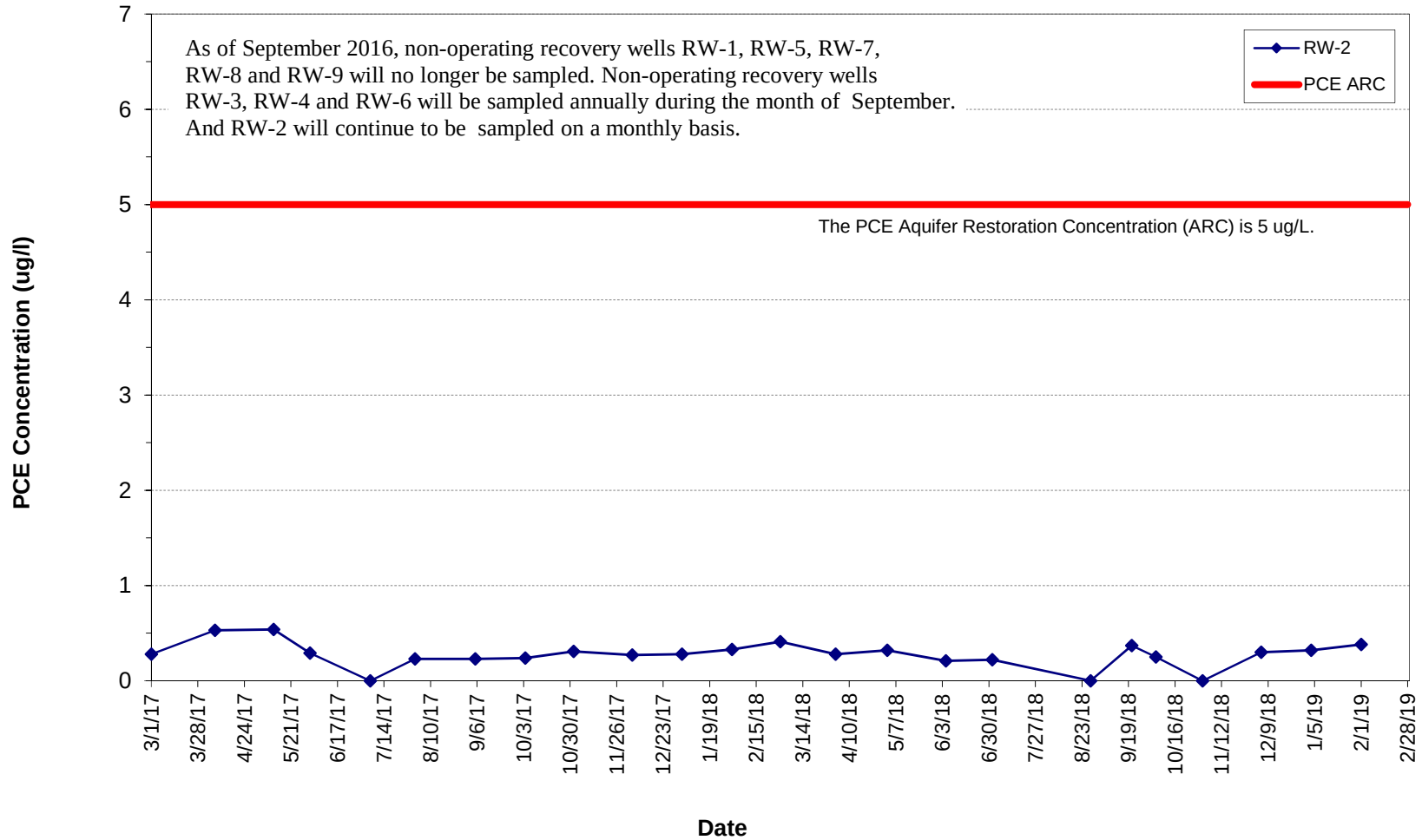


Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

Note 2: The spikes in PCE concentrations observed after January 2014 coincide with well rehabilitation and annual maintenance events. During well rehabilitation and annual maintenance work, FSP&T system samples are collected when water from the FP&T system is not diluted with water extracted from RW-2.

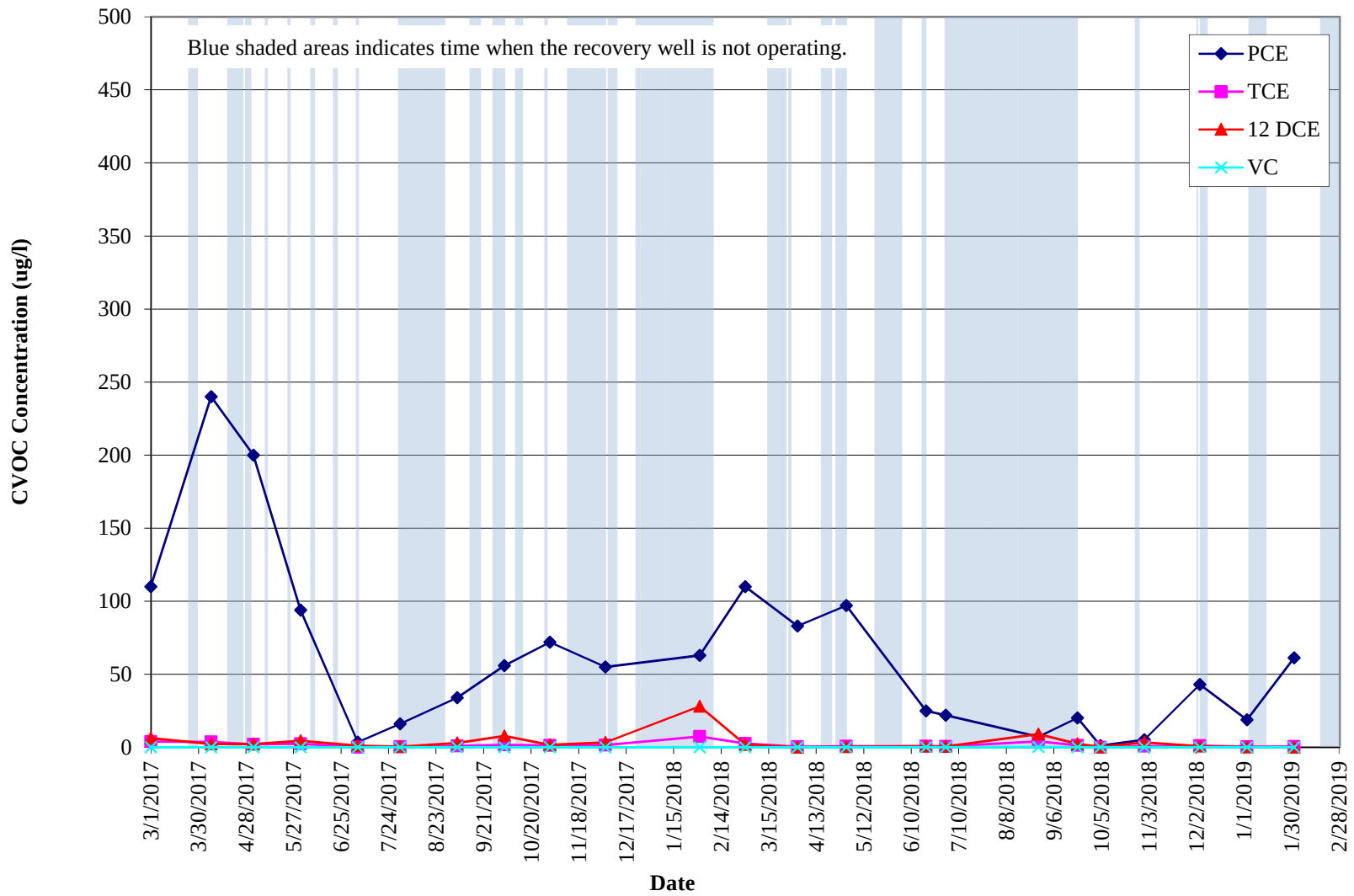
GRAPH 3
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T Recovery Well PCE Concentration



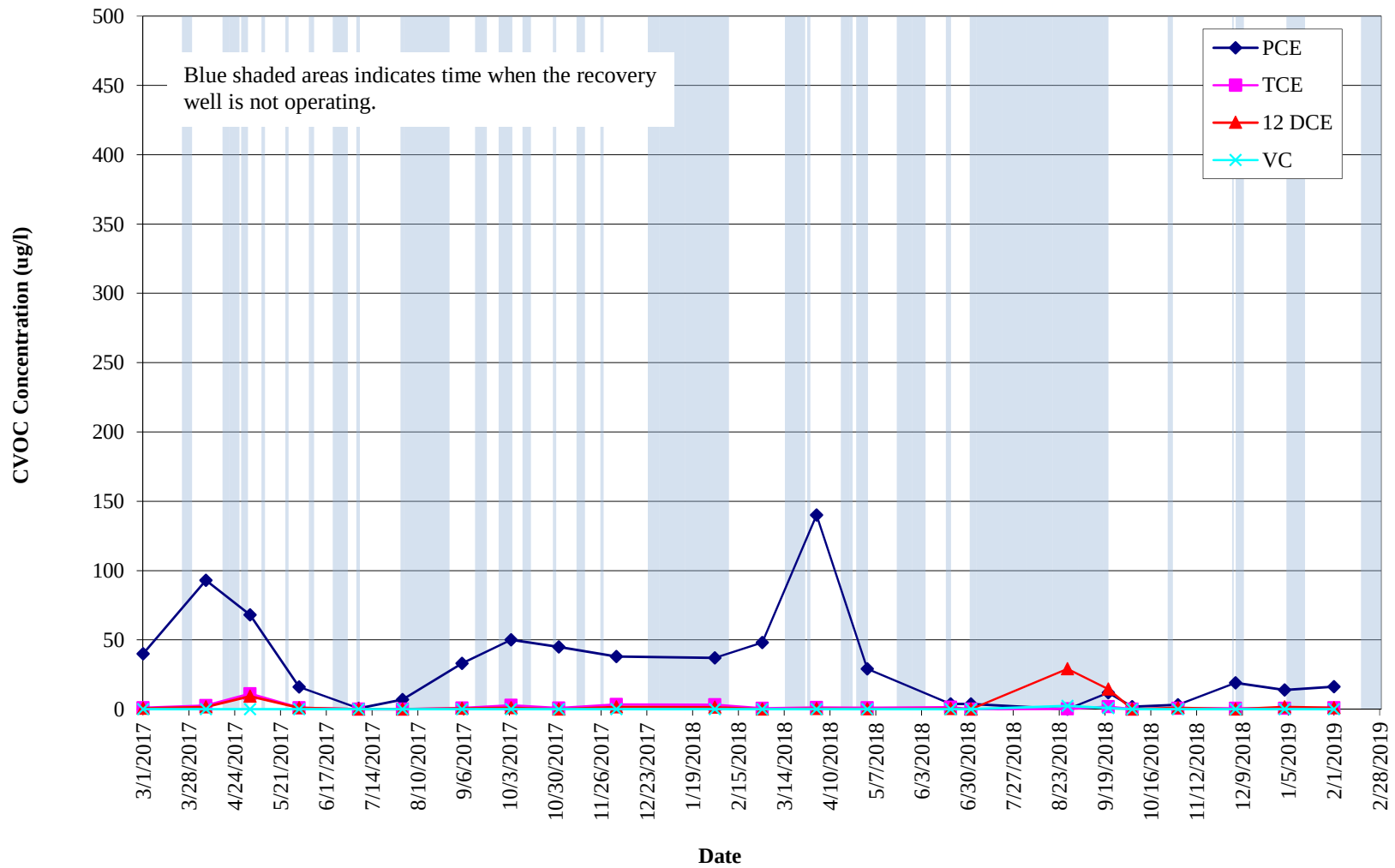
GRAPH 4
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-1



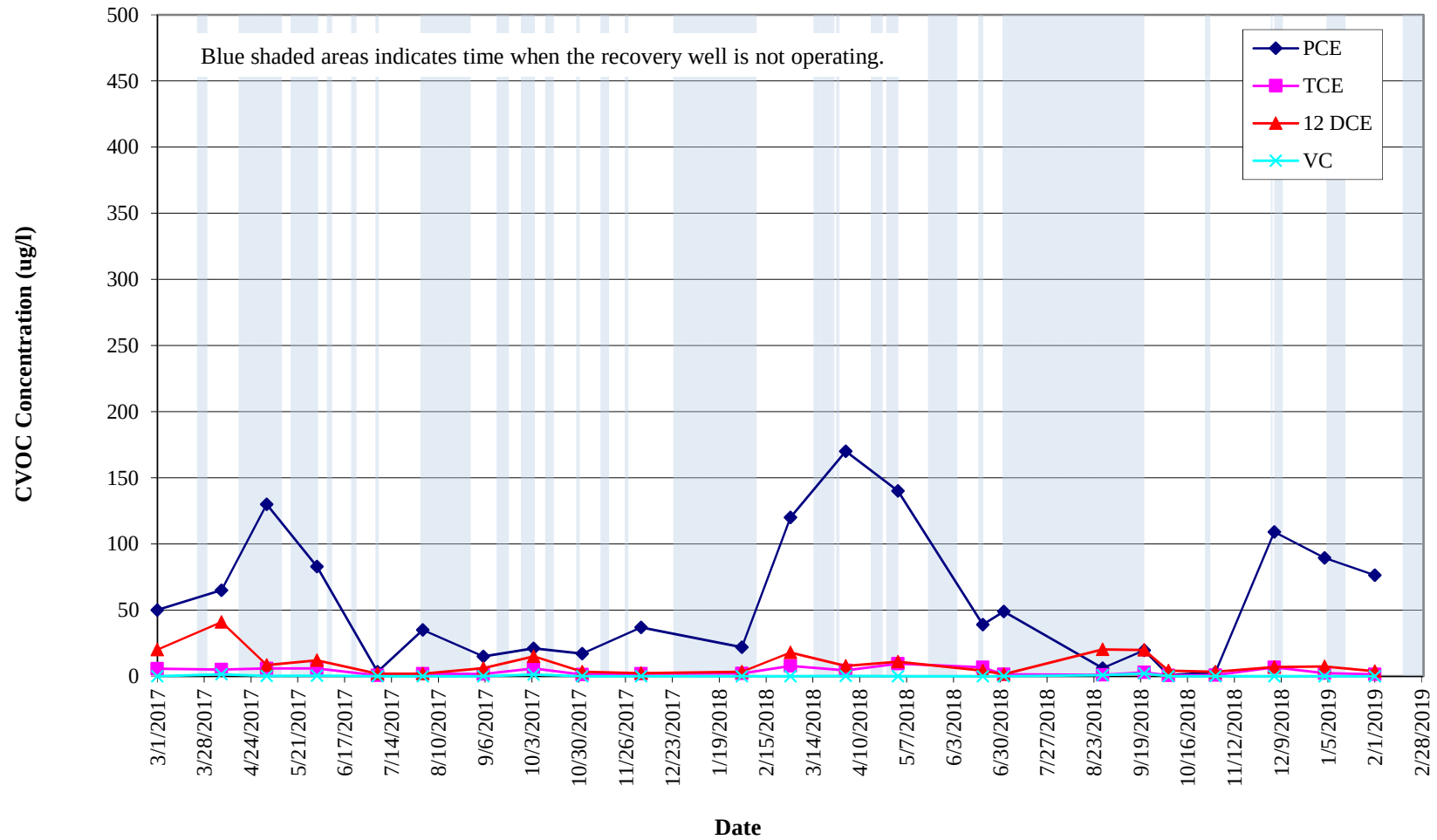
GRAPH 5
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-2



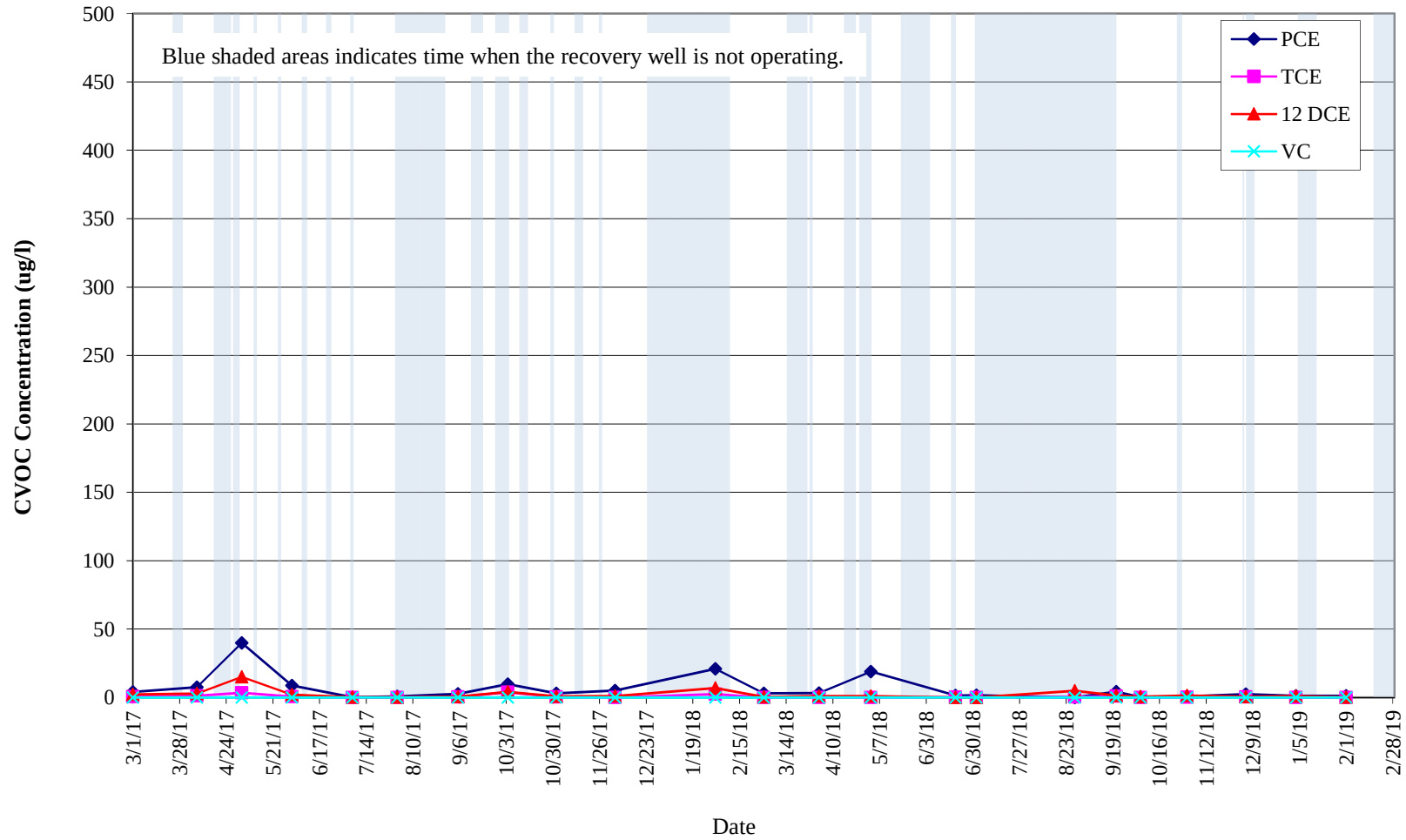
GRAPH 6
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-3

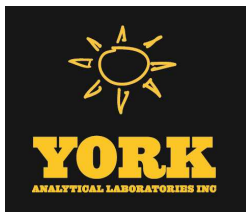


GRAPH 7
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-4



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



Technical Report

prepared for:

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

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

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

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

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 04, 2019 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19B0055-01	WQ020119: 1300 NP2-6	Water	02/01/2019	02/04/2019
19B0055-02	WQ020119: 1305 NP2-10	Water	02/01/2019	02/04/2019

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

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 02/11/2019





Sample Information

Client Sample ID: WQ020119: 1300 NP2-6

York Sample ID: 19B0055-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:00 pm

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 13:41	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP



Sample Information

Client Sample ID: WQ020119: 1300 NP2-6

York Sample ID: 19B0055-01

York Project (SDG) No.

19B0055

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 1:00 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
156-59-2	cis-1,2-Dichloroethylene	0.310		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP



Sample Information

Client Sample ID: WQ020119: 1300 NP2-6

York Sample ID: 19B0055-01

York Project (SDG) No.

19B0055

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 1:00 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
91-20-3	Naphthalene	1.27		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
127-18-4	Tetrachloroethylene	4.39		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
79-01-6	Trichloroethylene	0.340	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 13:41	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 13:41	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	94.0 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.6 %	70-130								



Sample Information

Client Sample ID: WQ020119: 1305 NP2-10

York Sample ID: 19B0055-02

York Project (SDG) No.

19B0055

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 1:05 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 09:00	02/06/2019 14:09	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP



Sample Information

Client Sample ID: WQ020119: 1305 NP2-10

York Sample ID: 19B0055-02

York Project (SDG) No.

19B0055

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 1:05 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 09:00	02/06/2019 14:09	TMP

Sample Information

Client Sample ID: WQ020119: 1305 NP2-10

York Sample ID: 19B0055-02

York Project (SDG) No.
19B0055

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 1:05 pm

Date Received
02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/06/2019 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:09	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/06/2019 14:09	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:09	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/06/2019 09:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:09	TMP

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	110 %	70-130
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	95.1 %	70-130
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	97.8 %	70-130

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@ [REDACTED] Page



Sample Information

Client Sample ID: WQ020119: 1305 NP2-10

York Sample ID: 19B0055-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0055

31401451.000 task 01.00

Water

February 1, 2019 1:05 pm

02/04/2019

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

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

Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

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

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

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



Analytical Batch Summary

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

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

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

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

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

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

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

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB90120 - EPA 5030B											
Blank (BB90120-BLK1)										Prepared & Analyzed: 02/06/2019	
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Blank (BB90120-BLK1)

Prepared & Analyzed: 02/06/2019

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

LCS (BB90120-BS1)

Prepared & Analyzed: 02/06/2019

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

LCS (BB90120-BS1)

Prepared & Analyzed: 02/06/2019

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

LCS Dup (BB90120-BSD1)

Prepared & Analyzed: 02/06/2019

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



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

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



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
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Batch BB90251 - % Solids Prep

Blank (BB90251-BLK1)

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

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

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



Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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





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Field Chain-of-Custody Record

YORK Project No.

930055

Page 1 of 1

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

Your signature binds you to YORK's Standard Terms & Conditions.

YOUR INFORMATION						Report To:			Invoice To:			YOUR Project Number		Turn-Around Time		
Company: NSP USA	Address: 4 Research Dr., Ste 204 Shelton CT 06484	Phone.: 203-929-FSSS	Contact: Tunde Sandoz	E-mail: tunde.sandoz@nsps.com	Company: <i>Sane</i>	Address: <i>Sane</i>	Phone. <i>Sane</i>	Contact: <i>Sane</i>	E-mail: <i>Sane</i>	YOUR Project Name 31401451.000 task 01.00		RUSH - Next Day	RUSH - Two Day	RUSH - Three Day	RUSH - Four Day	Standard (5-7 Day) X
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved. <i>Evan Foster</i> Samples Collected by (print your name above and sign below)					Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.					
					S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other	New York New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package NY ASP B Package	CT RCP CT RCP DQADUE NJDEP Reduced Deliverables NJDQP Other: PDF	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite	Compared to the following Regulation(s): (please fill in)						
Sample Identification					Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description					
WQ0201191 1300 NP2-G					GL	2-19 1300	VOC's 8260 full list + frag 113				3 VOC					
WQ0201191 1305 NP2-10					GL	+ 1305	VOC " 8260 full list + frag 113; Fe by EPA 200.7; Fe dissolved by EPA 6010; TDS				3 VOC, 3 plastic					
Comments: <i>[Signature]</i>													Special Instruction			
													Field Filtered _____			
													Lab to Filter _____			
													Date/Time _____			
													Date/Time _____			
Samples Relinquished by / Company					Date/Time		Samples Relinquished by / Company				Temp. Received at Lab		Degrates C			
<i>[Signature]</i>					2-4-19 1237						4.5					
Samples Received by / Company					Date/Time		Samples Received by / Company									
<i>[Signature]</i>																
Samples Relinquished by / Company					Date/Time		Samples Relinquished by / Company									
<i>[Signature]</i>																

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



Technical Report

prepared for:

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

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

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

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

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 04, 2019 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19B0057-01	WQ020119: 1230 FRW-1	Water	02/01/2019	02/04/2019
19B0057-02	WQ020119: 1235 FRW-2	Water	02/01/2019	02/04/2019
19B0057-03	WQ020119: 1240 FRW-3	Water	02/01/2019	02/04/2019
19B0057-04	WQ020119: 1245 FRW-4	Water	02/01/2019	02/04/2019
19B0057-05	WQ020119: 1250 NP1-1-2	Water	02/01/2019	02/04/2019

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

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 02/11/2019





Sample Information

Client Sample ID: WQ020119: 1230 FRW-1

York Sample ID: 19B0057-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19B0057

31401451.000 task 01.00

Water

February 1, 2019 12:30 pm

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 14:36	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP



Sample Information

Client Sample ID: WQ020119: 1230 FRW-1

York Sample ID: 19B0057-01

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:30 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP



Sample Information

Client Sample ID: WQ020119: 1230 FRW-1

York Sample ID: 19B0057-01

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:30 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
127-18-4	Tetrachloroethylene	61.2		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
79-01-6	Trichloroethylene	0.550		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 14:36	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 14:36	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	93.2 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.3 %	70-130								



Sample Information

Client Sample ID: WQ020119: 1235 FRW-2

York Sample ID: 19B0057-02

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:35 pm

Date Received

02/04/2019

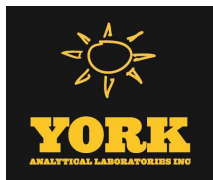
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:03	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP



Sample Information

Client Sample ID: WQ020119: 1235 FRW-2

York Sample ID: 19B0057-02

York Project (SDG) No.
19B0057

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 12:35 pm

Date Received
02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
156-59-2	cis-1,2-Dichloroethylene	1.00		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP



Sample Information

Client Sample ID: WQ020119: 1235 FRW-2

York Sample ID: 19B0057-02

York Project (SDG) No.
19B0057

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 12:35 pm

Date Received
02/04/2019

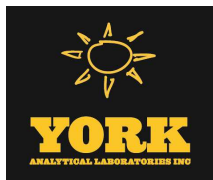
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
127-18-4	Tetrachloroethylene	16.2		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
79-01-6	Trichloroethylene	0.980		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:03	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:03	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	107 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	93.9 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.8 %	70-130								



Sample Information

Client Sample ID: WQ020119: 1240 FRW-3

York Sample ID: 19B0057-03

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:40 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
71-55-6	1,1,1-Trichloroethane	0.330		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:30	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP



Sample Information

Client Sample ID: WQ020119: 1240 FRW-3

York Sample ID: 19B0057-03

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:40 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
156-59-2	cis-1,2-Dichloroethylene	3.69		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP



Sample Information

Client Sample ID: WQ020119: 1240 FRW-3

York Sample ID: 19B0057-03

York Project (SDG) No.
19B0057

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 12:40 pm

Date Received
02/04/2019

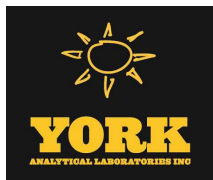
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
127-18-4	Tetrachloroethylene	76.4		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
79-01-6	Trichloroethylene	1.41		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:30	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:30	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	92.6 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	100 %	70-130								



Sample Information

Client Sample ID: WQ020119: 1245 FRW-4

York Sample ID: 19B0057-04

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:45 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:57	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP



Sample Information

Client Sample ID: WQ020119: 1245 FRW-4

York Sample ID: 19B0057-04

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:45 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
156-59-2	cis-1,2-Dichloroethylene	0.200		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP



Sample Information

Client Sample ID: WQ020119: 1245 FRW-4

York Sample ID: 19B0057-04

York Project (SDG) No.
19B0057

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 12:45 pm

Date Received
02/04/2019

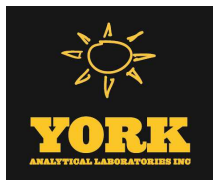
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
127-18-4	Tetrachloroethylene	1.22		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 15:57	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 15:57	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	94.1 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.3 %	70-130								



Sample Information

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

York Sample ID: 19B0057-05

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:50 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 16:24	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP



Sample Information

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

York Sample ID: 19B0057-05

York Project (SDG) No.

19B0057

Client Project ID

31401451.000 task 01.00

Matrix

Water

Collection Date/Time

February 1, 2019 12:50 pm

Date Received

02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP



Sample Information

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

York Sample ID: 19B0057-05

York Project (SDG) No.
19B0057

Client Project ID
31401451.000 task 01.00

Matrix
Water

Collection Date/Time
February 1, 2019 12:50 pm

Date Received
02/04/2019

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
127-18-4	Tetrachloroethylene	0.380		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
79-01-6	Trichloroethylene	0.360	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/06/2019 14:17	02/06/2019 16:24	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/06/2019 14:17	02/06/2019 16:24	TMP
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	95.8 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.5 %	70-130								



Analytical Batch Summary

Batch ID: BB90120

Preparation Method: EPA 5030B

Prepared By: KU

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB90120 - EPA 5030B											
Blank (BB90120-BLK1)										Prepared & Analyzed: 02/06/2019	
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Blank (BB90120-BLK1)

Prepared & Analyzed: 02/06/2019

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

Surrogate: SURR: 1,2-Dichloroethane-d4

10.9

"

10.0

109

70-130

Surrogate: SURR: Toluene-d8

9.43

"

10.0

94.3

70-130

Surrogate: SURR: p-Bromofluorobenzene

9.91

"

10.0

99.1

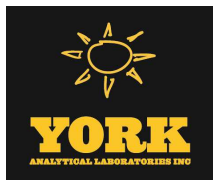
70-130

LCS (BB90120-BS1)

Prepared & Analyzed: 02/06/2019

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

Low Bias



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

LCS (BB90120-BS1)

Prepared & Analyzed: 02/06/2019

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

LCS Dup (BB90120-BSD1)

Prepared & Analyzed: 02/06/2019

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



Volatile Analysis Sample Containers

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



Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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





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Field Chain-of-Custody Record

YORK Project No.

1980057

Page 1 of 1

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

YOUR Information			Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	WSP USA	Company:	Same	Company:	Same	Company:	31401451.000	RUSH - Next Day		
Address:	4 Research Dr. Ste 204	Address:		Address:		Address:	task 01.00	RUSH - Two Day		
Phone:	Shelton CT 06484	Phone:		Phone:		Phone:	YOUR Project Name	RUSH - Three Day		
Contact:	203 929-8555	Contact:		Contact:		Contact:	31401451.000	RUSH - Four Day		
E-mail:	Tunde Sander	E-mail:		E-mail:		E-mail:	task 01.00	Standard (5-7 Day)	☒	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.										
Evan Foster Samples Collected by: (print your name above and sign below) 										
Sample Identification		Matrix Codes	Samples From	Report / EDD Type (circle selections)		YORK Reg. Comp.				
1230 FRU-1		S - soil / solid	New York	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)			
1235 FRU-2		GW - groundwater	New Jersey	QA Report	CT RCP DQADUE	EQULS (Standard)				
1240 FRU-3		DW - drinking water	Connecticut	NY ASP A Package	NUDEP Reduced Deliverables	NYSDEC EQUIS				
1245 FRU-4		WW - wastewater	Pennsylvania	NY ASP B Package	NUDEP SRP HazSite	NUDEP SRP HazSite				
1250 NPI-1-2		O - Oil ; Other	Other		NUDKQP	Other: PDF				
Sample Matrix		Date/Time Sampled	Analysis Requested		Container Description					
GW		2-1-19 1230	VOC's 8266s Full List + Frach 113		300a					
		1235								
		1240								
		1245								
		1250								
Comments:										
Preservation: (check all that apply)										
HCl ☒ MeOH ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ ZnAc ☐										
Ascorbic Acid ☐ Other: ☐										
Samples Relinquished by / Company		Date/Time	Samples Relinquished by / Company		Date/Time		Special Instruction			
2-4-19 1237							Field Filtered Lab to Filter			
Samples Received by / Company		Date/Time	Samples Received by / Company		Date/Time					
2-4-19 1237										
Samples Relinquished by / Company		Date/Time	Samples Received in LAB by		Date/Time		Temp. Received at Lab			
2-4-19 1237			7 Feb 2-4-19 1237				4.5			