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 November 2020 Status Report

DATE: May 4, 2021

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; 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. In February 2020, the FP&T system, which consists of four focused recover wells (FRW-1, FRW-2, FRW-3 and FRW-4), was turned off with EPA approval to conduct in-situ injection to treat contaminants in the former drum storage area (FDSA). This status report presents a summary of performance, operation and maintenance for the FSP&T system and monitoring activities for the site from November 1, 2020 through November 30, 2020. 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

(November 1, 2020 through November 30, 2020)

1. Hours of operation during the reporting period:	548 hours (76.1%)
2. Alarm conditions during the reporting period:	See Table 1
3. Were the State Pollutant Discharge Elimination System (SPDES) volatile organic compounds (VOC) discharge permit criteria achieved:	Yes, (see Table 2, App. I)
4. Total volume of water pumped during the reporting period:	914,986 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:	0.02 pounds (see Graph 2)
7. Cumulative mass of VOCs recovered since startup on 12/17/02: (calculations can be provided upon request)	230.0 pounds

WSP USA
4 Research Drive, Suite 204
Shelton, CT 06484

Phone: +1 (203) 929-8555
Fax: +1 (203) 926-9140
wsp.com

PUMP AND TREAT SYSTEM STATUS SUMMARY

On November 18, 2020, after two RW-2 pump fault alarms, the target flow rate for RW-2 was decreased from 27 gpm to 24 gpm to reduce the stress on the RW-2 pump motor, which is believed to be caused by iron buildup between the RW-2 pump and the EQ tank. The remaining O&M activities for the FSP&T system are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

November 2020 groundwater quality sampling was completed for the following wells:

- A monthly groundwater sample was collected from RW-2 on November 2, 2020.

Table 3 presents a summary of the quality results for water samples collected from downgradient recovery well RW-2. Graph 3 presents tetrachloroethylene (PCE) concentrations for samples collected from RW-2 for the last 24 months. The laboratory analytical report for the water sample collected from the recovery well is included as Appendix I. Because RW-2 is the only well operating, the sample from that well also serves as the influent system sample.

The PCE, trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), vinyl chloride (VC) and trichloroethane (TCA) concentrations in the groundwater sample collected from RW-2 were below the respective Applicable or Relevant and Appropriate Requirements (ARARs); concentrations at RW-2 have been below the ARARs for over 10 years. A groundwater sample from RW-2 will continue to be collected and analyzed monthly.

FUTURE O&M ACTIVITIES

O&M activities scheduled for December 2020 include:

- clean the riser pipe, flow meter and piping from RW-2 to the EQ tank;
- remove vegetation from the recharge basins;
- remove solid waste drums from the facility;
- replace the batteries in the fire/security monitoring unit; and
- normal bi-weekly/monthly O&M activities.

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

H:\NABIS\2020\Monthly Rpts\November\Draft Status Report - Nov 2020.docx

TABLES

TABLE 1

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

MAINTENANCE LOG
(November 1, 2020 through November 30, 2020)

Date	Time	System Changes/Modifications	Personnel
11/2/20		Collect system water samples.	SP
11/10/20	10:27 am	RW-2 pump fault alarm; system shuts down.	
	7:10 pm	The drive for RW-2 was reset, the alarm was cleared and the system was restarted.	JF
11/12/20	11:17 am	RW-2 pump fault alarm; system shuts down.	
11/18/20	9:45 am	Reset the RW-2 drive and lowered the target flow rate for RW-2 from 27 gpm to 24 gpm. The RW-2 pump fault alarm is suspected to be caused by iron buildup between the RW-2 pump and the EQ tank. A cleaning is scheduled for early December. The alarm was cleared and the system was restarted without issue.	SP
		Remote signal for the fire and security monitoring service was not being received by security company. The cause was low batteries in the fire/security monitoring unit. Reset the building fire/security monitoring alarm and ordered batteries.	SP
		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. Cleaned filter baskets and housings.	SP

Notes:

SP	Scott Philbrick, WSP USA
JF	Jamie Forrester, WSP USA

H:\NABIS\2020\Monthly Rpts\November\Table 1 Maintenance Record - Nov 2020.docx

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)
SPDES Limits	**6.5 to 8.5**	**---**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**---**	**10**	**7**
7-Jan-20	6.8	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5
4-Feb-20	7.0	122	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
2-Mar-20	7.0	137	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
2-Apr-20	7.0	161	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
7-May-20	7.0	299	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
2-Jun-20	6.8	174	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
7-Jul-20	7.0	125	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
7-Aug-20	6.8	178	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-Sep-20	6.8	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5
1-Oct-20	6.8	148	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
2-Nov-20	7.0	889	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

SPDES: State Pollutant Discharge Elimination System
mg/l: Milligrams per liter
ug/l: Micrograms per liter
----: Not established
NM: Not Measured
TDS: Total dissolved solids
PCE: Tetrachloroethylene
1,1,1-TCA: 1,1,1-Trichloroethane
TCE: Trichloroethene
1,1-DCA: 1,1-Dichlorothane
1,1-DCE: 1,1-Dichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
trans-1,2,-DCE: trans-1,2-Dichloroethene

J: Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
ND: Not detected NA: Not Analyzed
C = CCV-E: The value reported is estimated The value is estimated due to its behavior during continuing calibration verification.
Q = QL-02: This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Notes:

1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The effluent pH was 7.0 on November 18, 2020. Historic pH measurements from recovery wells indicate that natural background pH concentrations are less than 6.5.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.

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	4-Nov-19	0.400	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
	5-Dec-19	0.270	0.300	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-Jan-20	0.250	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
	4-Feb-20	0.270 Q	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-Mar-20	1.67 C	0.250	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-20	0.230	0.230 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
	7-May-20	0.240	ND<0.5	ND<0.5	0.210	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-Jun-20	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
	7-Jul-20	0.220	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
	7-Aug-20	ND<0.5	ND<0.5	ND<0.5	0.260	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-Sep-20	ND<0.5	0.310	ND<0.5	0.330	ND<0.5	ND<0.5	0.260	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Oct-20	ND<0.5	0.330	ND<0.5	0.210	ND<0.5	ND<0.5	0.210	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Nov-20	0.350	ND<0.5	ND<0.5	0.220	ND<0.5	ND<0.5	1.42	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5

PCE: Tetrachloroethylene TCE: Trichloroethylene TCA: 1,1,1-Trichloroethane
MTBE: Methyl-tertiary-butyl-ether NS: Not sampled

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.

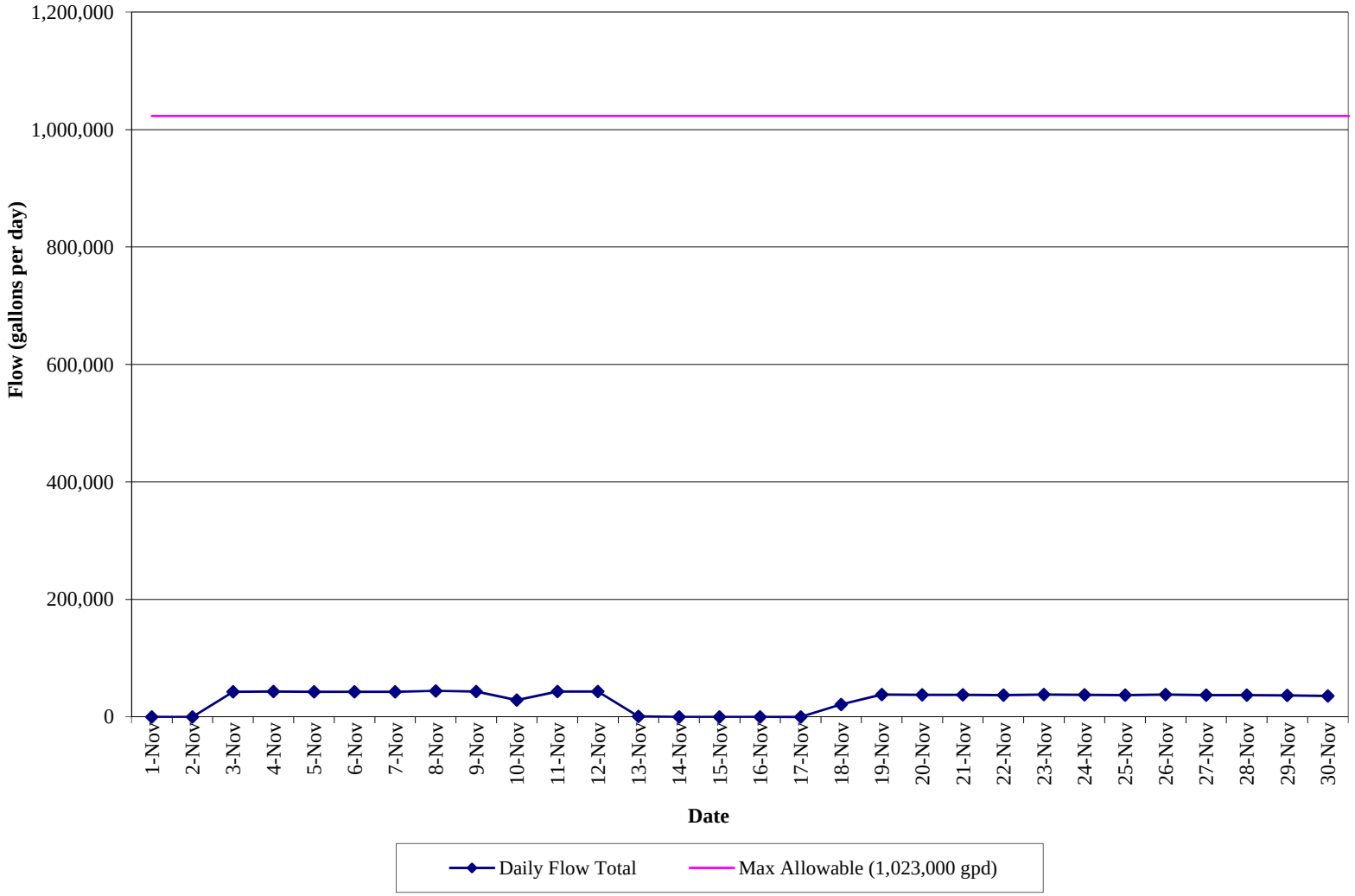
Bold values indicate an exceedance of the ARAR standard established for the site.

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

GRAPHS

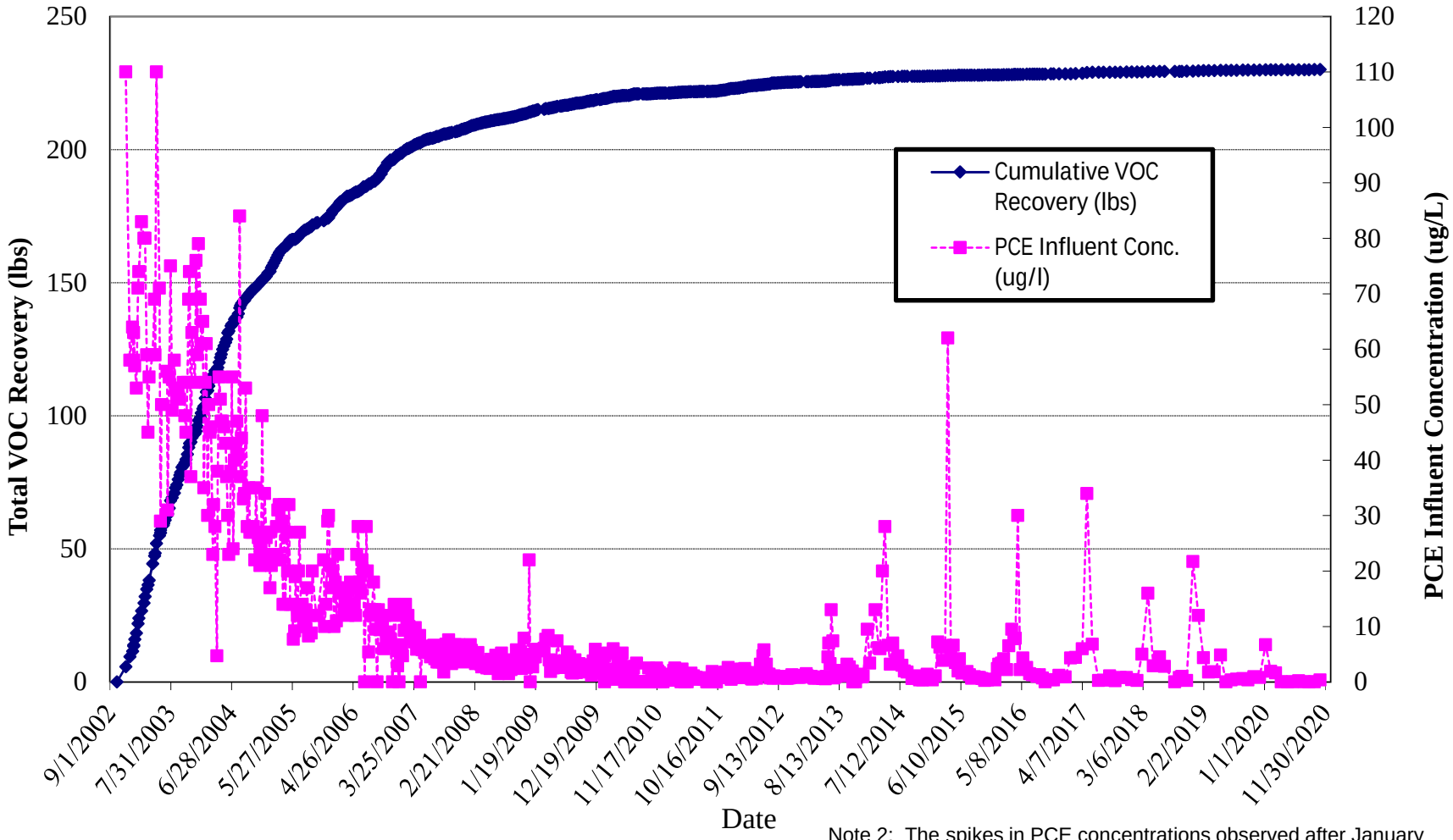
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(November 1, 2020 to November 30, 2020)



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



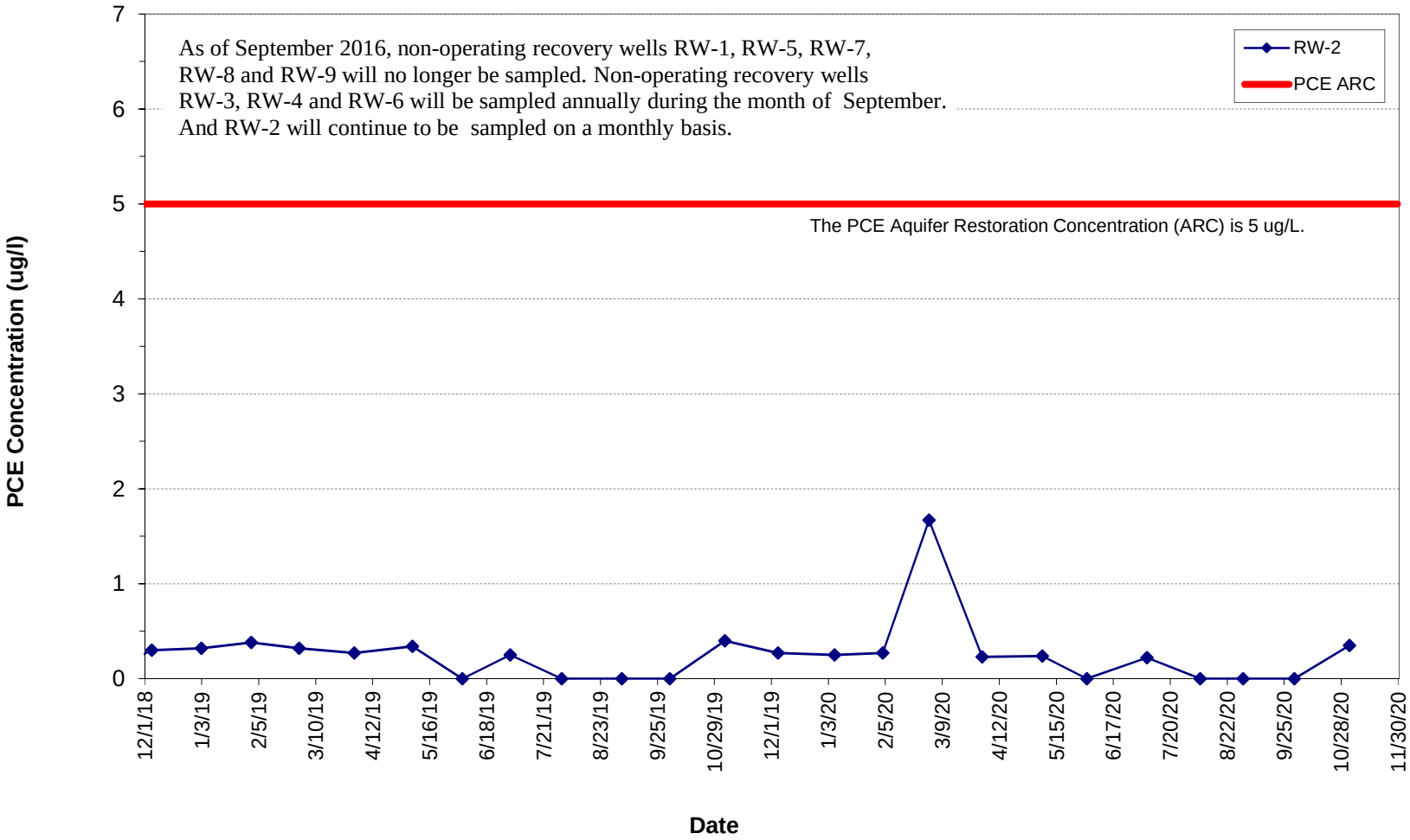
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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



APPENDIX I

NOVEMBER 2020 LABORATORY ANALYTICAL REPORT

FOR FSP&T SYSTEM AND RW-2

Technical Report

prepared for:

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

Report Date: 11/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20K0036

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 STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20K0036

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 November 02, 2020 and listed below. The project was identified as your project: **31401451.000 Task 01.00 Rowe Industries**.

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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20K0036-01	WQ110220: 0930 NP1-1-2	Water	11/02/2020	11/02/2020
20K0036-02	WQ110220: 0945 NP2-10	Water	11/02/2020	11/02/2020

General Notes for York Project (SDG) No.: 20K0036

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: 

Date: 11/09/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ110220: 0930 NP1-1-2 **York Sample ID:** 20K0036-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:30 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	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:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP	11/05/2020 14:23	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP

Sample Information

Client Sample ID: WQ110220: 0930 NP1-1-2 **York Sample ID:** 20K0036-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:30 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
67-66-3	**Chloroform**	**0.220**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
156-59-2	**cis-1,2-Dichloroethylene**	**1.42**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:23	TMP

Sample Information

Client Sample ID: WQ110220: 0930 NP1-1-2 **York Sample ID:** 20K0036-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:30 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**0.350**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-01-4	**Vinyl Chloride**	**0.350**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:23	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*118 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.3 %*	*79-122*

Sample Information

Client Sample ID: WQ110220: 0945 NP2-10 **York Sample ID:** 20K0036-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:45 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	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:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: WQ110220: 0945 NP2-10 **York Sample ID:** 20K0036-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:45 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/05/2020 14:49	TMP

Sample Information

Client Sample ID: WQ110220: 0945 NP2-10 **York Sample ID:** 20K0036-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:45 am	11/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/05/2020 06:47	11/05/2020 14:49 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*122 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.3 %*	*79-122*

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **WQ110220: 0945 NP2-10** **York Sample ID:** **20K0036-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20K0036	31401451.000 Task 01.00 Rowe Industries	Water	November 2, 2020 9:45 am	11/02/2020

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**889**		mg/L	10.0	1	SM 2540C	11/02/2020 19:43	11/05/2020 02:19	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BK00079 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20K0036-02	WQ110220: 0945 NP2-10	11/02/20
BK00079-BLK1	Blank	11/02/20

Batch ID: BK00275 **Preparation Method:** EPA 5030B **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20K0036-01	WQ110220: 0930 NP1-1-2	11/05/20
20K0036-02	WQ110220: 0945 NP2-10	11/05/20
BK00275-BLK1	Blank	11/05/20
BK00275-BS1	LCS	11/05/20
BK00275-BSD1	LCS Dup	11/05/20

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00275 - EPA 5030B											
Blank (BK00275-BLK1)											Prepared & Analyzed: 11/05/2020
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00275 - EPA 5030B											
Blank (BK00275-BLK1)								Prepared & Analyzed: 11/05/2020			
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.9*		*"*	*10.0*		*119*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.50*		*"*	*10.0*		*95.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.49*		*"*	*10.0*		*94.9*	*79-122*				
LCS (BK00275-BS1)								Prepared & Analyzed: 11/05/2020			
1,1,1,2-Tetrachloroethane	9.50		ug/L	10.0		95.0	82-126				
1,1,1-Trichloroethane	10.6		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	9.01		"	10.0		90.1	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165				
1,1,2-Trichloroethane	9.03		"	10.0		90.3	82-123				
1,1-Dichloroethane	9.76		"	10.0		97.6	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,1-Dichloropropylene	10.4		"	10.0		104	83-133				
1,2,3-Trichlorobenzene	8.79		"	10.0		87.9	76-136				
1,2,3-Trichloropropane	8.81		"	10.0		88.1	77-128				
1,2,4-Trichlorobenzene	9.34		"	10.0		93.4	76-137				
1,2,4-Trimethylbenzene	9.90		"	10.0		99.0	82-132				
1,2-Dibromo-3-chloropropane	9.91		"	10.0		99.1	45-147				
1,2-Dibromoethane	8.92		"	10.0		89.2	83-124				
1,2-Dichlorobenzene	9.69		"	10.0		96.9	79-123				
1,2-Dichloroethane	9.97		"	10.0		99.7	73-132				
1,2-Dichloropropane	9.64		"	10.0		96.4	78-126				
1,3,5-Trimethylbenzene	9.97		"	10.0		99.7	80-131				
1,3-Dichlorobenzene	9.53		"	10.0		95.3	86-122				
1,3-Dichloropropane	9.12		"	10.0		91.2	81-125				
1,4-Dichlorobenzene	9.48		"	10.0		94.8	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.74		"	10.0		97.4	79-130				
2-Hexanone	9.01		"	10.0		90.1	51-146				
4-Chlorotoluene	9.58		"	10.0		95.8	79-128				
Acetone	11.6		"	10.0		116	14-150				
Benzene	9.91		"	10.0		99.1	85-126				
Bromobenzene	9.38		"	10.0		93.8	78-129				
Bromochloromethane	10.4		"	10.0		104	77-128				
Bromodichloromethane	9.83		"	10.0		98.3	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00275 - EPA 5030B											
LCS (BK00275-BS1)								Prepared & Analyzed: 11/05/2020			
Bromoform	9.12		ug/L	10.0		91.2	78-133				
Bromomethane	11.3		"	10.0		113	43-168				
Carbon tetrachloride	10.8		"	10.0		108	77-141				
Chlorobenzene	9.74		"	10.0		97.4	88-120				
Chloroethane	10.7		"	10.0		107	65-136				
Chloroform	10.2		"	10.0		102	82-128				
Chloromethane	9.33		"	10.0		93.3	43-155				
cis-1,2-Dichloroethylene	10.4		"	10.0		104	83-129				
cis-1,3-Dichloropropylene	8.49		"	10.0		84.9	80-131				
Dibromochloromethane	9.18		"	10.0		91.8	80-130				
Dibromomethane	8.71		"	10.0		87.1	72-134				
Dichlorodifluoromethane	12.6		"	10.0		126	44-144				
Ethyl Benzene	10.3		"	10.0		103	80-131				
Hexachlorobutadiene	8.57		"	10.0		85.7	67-146				
Isopropylbenzene	9.61		"	10.0		96.1	76-140				
Methyl tert-butyl ether (MTBE)	9.62		"	10.0		96.2	76-135				
Methylene chloride	10.7		"	10.0		107	55-137				
Naphthalene	8.47		"	10.0		84.7	70-147				
n-Butylbenzene	10.4		"	10.0		104	79-132				
n-Propylbenzene	9.80		"	10.0		98.0	78-133				
o-Xylene	10.0		"	10.0		100	78-130				
p- & m- Xylenes	20.3		"	20.0		102	77-133				
p-Isopropyltoluene	9.83		"	10.0		98.3	81-136				
sec-Butylbenzene	10.5		"	10.0		105	79-137				
Styrene	10.1		"	10.0		101	67-132				
tert-Butylbenzene	8.53		"	10.0		85.3	77-138				
Tetrachloroethylene	9.24		"	10.0		92.4	82-131				
Toluene	9.81		"	10.0		98.1	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	8.26		"	10.0		82.6	78-131				
Trichloroethylene	9.78		"	10.0		97.8	82-128				
Trichlorofluoromethane	11.9		"	10.0		119	67-139				
Vinyl Chloride	10.8		"	10.0		108	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.86*		*"*	*10.0*		*98.6*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00275 - EPA 5030B											
LCS Dup (BK00275-BSD1)							Prepared & Analyzed: 11/05/2020				
1,1,1,2-Tetrachloroethane	9.34		ug/L	10.0		93.4	82-126		1.70	30	
1,1,1-Trichloroethane	10.2		"	10.0		102	78-136		4.32	30	
1,1,2,2-Tetrachloroethane	9.82		"	10.0		98.2	76-129		8.60	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7		"	10.0		107	54-165		3.75	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		14.7	30	
1,1-Dichloroethane	9.78		"	10.0		97.8	82-129		0.205	30	
1,1-Dichloroethylene	10.3		"	10.0		103	68-138		5.10	30	
1,1-Dichloropropylene	9.93		"	10.0		99.3	83-133		4.33	30	
1,2,3-Trichlorobenzene	10.1		"	10.0		101	76-136		14.1	30	
1,2,3-Trichloropropane	9.93		"	10.0		99.3	77-128		12.0	30	
1,2,4-Trichlorobenzene	10.2		"	10.0		102	76-137		9.29	30	
1,2,4-Trimethylbenzene	9.13		"	10.0		91.3	82-132		8.09	30	
1,2-Dibromo-3-chloropropane	10.5		"	10.0		105	45-147		5.59	30	
1,2-Dibromoethane	9.79		"	10.0		97.9	83-124		9.30	30	
1,2-Dichlorobenzene	9.44		"	10.0		94.4	79-123		2.61	30	
1,2-Dichloroethane	11.2		"	10.0		112	73-132		12.0	30	
1,2-Dichloropropane	9.61		"	10.0		96.1	78-126		0.312	30	
1,3,5-Trimethylbenzene	9.01		"	10.0		90.1	80-131		10.1	30	
1,3-Dichlorobenzene	9.21		"	10.0		92.1	86-122		3.42	30	
1,3-Dichloropropane	10.3		"	10.0		103	81-125		12.3	30	
1,4-Dichlorobenzene	8.94		"	10.0		89.4	85-124		5.86	30	
2,2-Dichloropropane	10.1		"	10.0		101	56-150		6.81	30	
2-Chlorotoluene	8.81		"	10.0		88.1	79-130		10.0	30	
2-Hexanone	11.8		"	10.0		118	51-146		26.6	30	
4-Chlorotoluene	8.75		"	10.0		87.5	79-128		9.06	30	
Acetone	13.5		"	10.0		135	14-150		15.5	30	
Benzene	9.73		"	10.0		97.3	85-126		1.83	30	
Bromobenzene	9.13		"	10.0		91.3	78-129		2.70	30	
Bromochloromethane	10.8		"	10.0		108	77-128		4.62	30	
Bromodichloromethane	10.2		"	10.0		102	79-128		3.79	30	
Bromoform	10.4		"	10.0		104	78-133		13.0	30	
Bromomethane	9.28		"	10.0		92.8	43-168		19.6	30	
Carbon tetrachloride	10.5		"	10.0		105	77-141		2.73	30	
Chlorobenzene	9.53		"	10.0		95.3	88-120		2.18	30	
Chloroethane	11.0		"	10.0		110	65-136		3.04	30	
Chloroform	10.1		"	10.0		101	82-128		1.38	30	
Chloromethane	9.08		"	10.0		90.8	43-155		2.72	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		1.26	30	
cis-1,3-Dichloropropylene	9.10		"	10.0		91.0	80-131		6.94	30	
Dibromochloromethane	10.2		"	10.0		102	80-130		10.4	30	
Dibromomethane	10.0		"	10.0		100	72-134		13.8	30	
Dichlorodifluoromethane	12.0		"	10.0		120	44-144		4.87	30	
Ethyl Benzene	9.75		"	10.0		97.5	80-131		5.10	30	
Hexachlorobutadiene	9.12		"	10.0		91.2	67-146		6.22	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		11.9	30	
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	76-135		17.1	30	
Methylene chloride	10.8		"	10.0		108	55-137		0.650	30	
Naphthalene	10.1		"	10.0		101	70-147		17.3	30	
n-Butylbenzene	9.81		"	10.0		98.1	79-132		5.36	30	
n-Propylbenzene	8.75		"	10.0		87.5	78-133		11.3	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00275 - EPA 5030B											
LCS Dup (BK00275-BSD1)								Prepared & Analyzed: 11/05/2020			
o-Xylene	9.92		ug/L	10.0		99.2	78-130		1.00	30	
p- & m- Xylenes	20.0		"	20.0		100	77-133		1.34	30	
p-Isopropyltoluene	9.06		"	10.0		90.6	81-136		8.15	30	
sec-Butylbenzene	9.60		"	10.0		96.0	79-137		8.96	30	
Styrene	10.2		"	10.0		102	67-132		0.791	30	
tert-Butylbenzene	7.72		"	10.0		77.2	77-138		9.97	30	
Tetrachloroethylene	8.90		"	10.0		89.0	82-131		3.75	30	
Toluene	9.55		"	10.0		95.5	80-127		2.69	30	
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132		4.23	30	
trans-1,3-Dichloropropylene	9.32		"	10.0		93.2	78-131		12.1	30	
Trichloroethylene	9.13		"	10.0		91.3	82-128		6.87	30	
Trichlorofluoromethane	11.3		"	10.0		113	67-139		5.10	30	
Vinyl Chloride	10.5		"	10.0		105	58-145		2.81	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.9*		*"*	*10.0*		*119*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.69*		*"*	*10.0*		*96.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.45*		*"*	*10.0*		*94.5*	*79-122*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK00079 - % Solids Prep											
Blank (BK00079-BLK1)											Prepared: 11/02/2020 Analyzed: 11/05/2020
Total Dissolved Solids	ND	10.0	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20K0036-01	WQ110220: 0930 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20K0036-02	WQ110220: 0945 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

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.

YORK Project No. 20K0036

YOUR Information	Report To:	Invoice To:
Company: WSP USA	Company: Same	Company: WSP USA Accounting
Address: 4 Research Drive, Suite 204, Shelton, CT 06484	Address:	Address:
Phone.: 203-929-8555	Phone.:	Phone.:
Contact: Tunde Komuves-Sandor	Contact:	Contact:
E-mail: tunde.sandor@wsp.com	E-mail:	E-mail:

YOUR Project Number: 31401451.000 Task 01.00

YOUR Project Name: Rowe Industries

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

YOUR PO#: 31401451.000 Task 01.00

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.

Samples Collected by: (print your name above and sign below) Scott Philbrick

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

(Summary Report)	CT RCP	(Standard Excel EDD)
(QA Report)	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
(NY ASP B Package)		NJDEP SRP HazSite
	NJDKQP	Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ110220:0930NP1-1-2	GW	11-2-20 9:30	VOCs 8260 full list + freon 113	3 HCl VOA
WQ110220:0945NP2-10	GW	11-2-20 9:45	VOCs 8260 full list + freon 113; TDS	3 HCl VOA; 1 plastic

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: Cool

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Scott Philbrick WSP	11/02/20				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** Date/Time	**Temp. Received at Lab**
				K Blackwell 11/2/20 1330	21.3 Degrees C