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POST-REMEDIAL ACTION
QUARTERLY MONITORING REPORT NO. 1
FORMER DRUM STORAGE AREA
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

RAMBOLL

ENVIRONMENT
& HEALTH

CONTENTS

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ACRONYMS AND ABBREVIATIONS

ARARs	Applicable or Relevant and Appropriate Requirements
bgs	below ground surface
COC	chemicals of concern
CVOCs	chlorinated volatile organic compounds
cDCE	cis-1,2-dichloroethene
COCs	contaminants of concern
Dhc	*Dehalococcoides*
DO	dissolved oxygen
EVO	emulsified vegetable oil
FP&T	focused pump and treat
FDSA	former drum storage area
FSP&T	full-scale pump and treat
ISB	*in-situ* bioremediation
ISCR	*in-situ* chemical reduction
Kraft	Kraft Heinz Foods Company, Inc.
LBGHES	LBG Hydrogeologic and Engineering Services, P.C.
µg/L	micrograms per liter
mg/L	milligrams per liter
ORP	oxidation reduction potential
Ramboll	Ramboll US Corporation
ROD	Record of Decision
SVE	soil vapor extraction
PCE	tetrachloroethene
TCA	1,1,1-trichloroethane
TOC	total organic carbon
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
ZVI	zero valent iron

1. INTRODUCTION

On behalf of Kraft Heinz Foods Company, Inc. (Kraft Heinz), Ramboll US Corporation (Ramboll) has prepared this Report to present May 2020 performance monitoring results of February 2020 remedial actions designed to treat chemicals of concern (COCs) (primarily tetrachloroethene [PCE] and its anaerobic degradation products) in groundwater at the former drum storage area (FDSA) on the Rowe Industries Superfund Site (the "Site") located in Sag Harbor, New York (Figure 1 and Figure 2). These remedial actions were implemented in accordance with the USEPA-approved *Work Plan for In-Situ Groundwater Remediation, Former Drum Storage Area, Rowe Industries Site* (Ramboll, November 2019). Implementation of the remedial actions was conducted as documented in the *Electron Donor Injection Documentation Report* (Ramboll, May 2020).

2. BACKGROUND

2.1 Site History

The Site was historically used to manufacture various electrical components such as copper coils for toy slot cars. Degreasers used in the manufacturing process were disposed of in several drywells and were also stored in drums in the FDSA of the Site that eventually leaked to the ground surface. The contamination was detected in nearby drinking water wells during the mid-1980s, and a Suffolk County Department of Health investigation identified the source as the property occupied by Sag Harbor Industries (SHI). A subsequent remedial investigation identified COCs as PCE, trichloroethene (TCE) and 1,1,1-trichloroethane (TCA). Groundwater impacted with these COCs was found to extend northwesterly from the FDSA over a distance in excess of ½ mile toward a brackish estuary named Ligonee Creek and also Sag Harbor Cove. The subject of this report is residual impacted soil and groundwater within the FDSA, which is located on an upgradient adjacent property to SHI (107 Laurel Lane in Sag Harbor, New York). The following sections provide a summary of soil and groundwater remedial actions conducted at the FDSA.

2.2 Previous FDSA Unsaturated Zone Treatment

Excavation of contaminated soil from the surface to 4 feet below ground surface (bgs) was completed in the FDSA in 1998. To treat remaining chlorinated volatile organic compounds (CVOC) in unsaturated zone soil, a soil vapor extraction (SVE) system was installed and operated from 1998 to 2003. In January 2005, LBG Hydrogeologic and Engineering Services, P.C. (LBGHES) submitted to the USEPA a report entitled *Addendum to Soil Remedial Action Report, Closure Request for Source Soils in the Former Drum Storage Area*. The 2005 LBGHES report demonstrated that soil quality in the unsaturated zone of the FDSA had achieved Applicable or Relevant and Appropriate Requirements (ARARs), and the USEPA subsequently approved the report conclusions. Remaining cleanup efforts within the FDSA therefore focus on treating the identified COCs in the saturated zone and capillary fringe near the water table.

As part of the information presented in the January 2005 LBGHES report, exceedances of the ARAR for PCE in soil were identified from soil samples collected at borings C3-2 and C3-4 in January 2003. The detected PCE in these soil boring samples was located at depths below the annual high water table, such that the PCE was located within the saturated soil for a portion of the year and therefore not considered to represent the vadose zone. The January 2005 LBGHES report concluded that this detected PCE would be more effectively treated via a groundwater remedy.

2.3 Previous FDSA Saturated Zone Treatment

In November 2000, a focused groundwater pump and treat (FP&T) remediation system began operating with four focused recovery wells (FRW-1, 2, 3, and 4) within the FDSA. The primary objective of groundwater extraction from these four focused recovery wells is to prevent the COCs from migrating beyond the FDSA.

In December 2002, a Site full-scale groundwater pump and treat (FSP&T) system consisting of nine recovery wells (identified as RW-1 through RW-9), an equalization tank, bag filters, tower air stripper, and transfer tank was installed and began operation for the purpose of recovering dissolved-phase COCs in groundwater downgradient of the FDSA.

In November 2004, approximately 10,800 pounds of EHC® product, which contained a micron-scale zero-valent iron (ZVI) and a carbon substrate, was injected into the saturated zone of the FDSA to enhance abiotic and biotic reductive dechlorination. The EHC® injection facilitated limited degradation of PCE to degradation products cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC). However, COC concentrations in groundwater persisted at concentrations above ARARs so the pump and treat operations in the FDSA were resumed.

Between July 2005 and January 2014, in accordance with the Site's Consent Decree, eight of the recovery wells located downgradient of the FDSA were shut down with USEPA's approval once the water quality in those wells had achieved ARARs for at least 3 consecutive years. FP&T wells FRW-1 through FRW-4, and also downgradient FSP&T well RW-2, currently remain in operation. Since 2000, the results of ongoing groundwater monitoring have confirmed that COCs in groundwater have not migrated beyond the FDSA. However, due to continued elevated concentrations in the FDSA groundwater, the recently-completed *in-situ* groundwater remedial actions documented herein were implemented to further treat COC-impacted groundwater within the FDSA.

As indicated in Section 2.2, residual PCE is located at depths below the annual high water table, such that electron donor injection for the purpose of in-situ groundwater remediation should occur during high water table conditions. An evaluation of local precipitation and associated groundwater elevation patterns was therefore conducted prior to the February 2020 electron donor injection event to gain an understanding of expected water table conditions at the time of injection.

3. FEBRUARY 2020 FDSA SATURATED ZONE TREATMENT

Ramboll proposed additional *in-situ* treatment of soil and groundwater within the FDSA in the November 2019 Work Plan. Specifically, Ramboll proposed additional remedial action via *in-situ* chemical reduction (ISCR) and *in-situ* anaerobic bioremediation (ISB) within a vertical zone that ranged from approximately 16 to 31 feet bgs over an approximately 2,000 square foot area (Figure 3 and Figure 4). This treatment zone encompasses previously-detected CVOC concentrations in soil associated with a clay lens and interbedded sands and silts beneath the FDSA.

Ramboll contracted Redox Tech, LLC (Redox Tech) to implement ISCR/ISB via electron donor injection within the FDSA. The ISCR/ISB reagents included five 1,000-liter totes of Anerobic BioChem (ABC®) carbon substrate, 5 liters of *Dehalococcoides (Dhc) containing* bacteria (commercially known as "RTB-1"), and 6,000 pounds of micron-scale ZVI. In addition to the ISCR/ISB reagents, guar was used on an as-needed basis to suspend the ZVI particles in prepared injection fluid, sodium sulfite to reduce dissolved oxygen in the injected amendment to support *Dhc* development, and granular bentonite for sealing the injection points.

Injection of reagents was conducted from February 25 to 28, 2020. A total of 19 injection points were advanced within the target injection area. Each injection location received 495 gallons of slurry that included approximately 474 pounds of ABC®, 316 pounds of ZVI, approximately 0.3 liters of RTB-1, and potable water that was deoxygenated using small quantities of sodium sulfite. The total quantities of injected amendment included 9,000 pounds of ABC®, 6,000 pounds of micron-scale ZVI and 5 liters of RTB-1, for a total of approximately 15,000 pounds of injected amendment that is commercially known as "ABC+."

The injections were performed at depths ranging from approximately 15 to 32 feet bgs at each injection location, as determined by surface topography and existing stratigraphic information (Figure 5 and Figure 6). The injections were performed using a direct push drill rig with hollow stem rods. The rods were advanced to the target depth and a hose fitting was threaded to the top of the rods connected to a diaphragm pump to deliver the amendments to the subsurface. The amendments were delivered in 1-foot intervals to facilitate adequate and uniform vertical distribution of reagent. At each interval, approximately 33 gallons of amendment was delivered for a total of approximately 495 gallons of amendment delivered per injection point as indicated above. The formation readily received the injected slurry with no daylighting and minimal injection pressures (approximately 100 pounds per square inch [psi]). The injected flow rates exceeded 8 gallons per minute (gpm). Each boring was sealed at the completion of the injections using granular bentonite, and subsequently hydrated.

4. GROUNDWATER MONITORING PLAN

To evaluate the effectiveness of the February 2020 ISCR/ISB remedial actions, baseline and ongoing post-injection sampling of wells FRW-1 through FRW-4, MW98-05AR, and MW-98-01A includes analysis of the following parameters: VOCs (Method 8260), sulfate (Method 300), ethene/ethane/ methane (Method 8015), dissolved iron (Method 6010B/200.8), total organic carbon (TOC) (Method 5310C), and nitrate+nitrite (Method 300). For data quality purposes, one field duplicate sample is submitted for laboratory analysis of the parameters identified above as part of each monitoring event. The field parameters turbidity, specific conductance, DO, pH, ORP, and temperature are also analyzed in the field as part of each sampling event. In addition, monitoring wells MW98-04 and MW-45A are being monitored for VOCs.

Subsequent to the February 2020 ISCR/ISB injection event, the groundwater monitoring described above is being conducted on a quarterly basis for 1 year (four sampling events), followed by 2 years of semi-annual monitoring (four additional sampling events), followed by annual groundwater monitoring thereafter. Wells MW-28A/B, 44A/B/C, 58A/B, 59A/B, 98-04B, 45B, and N-32 and 32B will continue to be sampled in accordance with their regular annual monitoring schedule. The frequency of groundwater monitoring and scope of laboratory analyses may be modified during the course of the groundwater monitoring program in response to monitoring results and field observations.

The focused recovery wells have been turned off since February 2020 to prevent removal of the injected reagents. However, extraction well RW-2 located downgradient of the FDSA will remain active and follow the current monitoring and operation schedule until post-injection monitoring confirms that PCE concentrations have stabilized.

5. GROUNDWATER MONITORING RESULTS

Pursuant to the November 2019 Ramboll Work Plan, the following monitoring wells were sampled using low flow sampling procedures on May 19 and 20, 2020: FRW-1, FRW-2, FRW-3, FRW-4, MW-45A, MW-98-01A, MW-98-04, and MW-98-05AR. The groundwater samples were submitted to York Analytical Laboratories, Inc., a New York-certified laboratory, and groundwater field sampling logs are provided as Appendix A. The groundwater samples were analyzed for VOCs, and the bioremediation indicator parameters dissolved iron, TOC, nitrate+nitrite, sulfate, ethene, ethane, and methane.

Following groundwater sample collection, the laboratory-provided groundwater sample containers were labeled with the sample location identifier, date and time of sample collection, and intended laboratory analyses. The sample containers were placed on ice in insulated coolers. A chain-of-custody form was prepared upon completion of sampling and accompanied the groundwater sample coolers to the project laboratory.

5.1 Water Table Elevations and Inferred Groundwater Flow Directions

Prior to collection of groundwater samples for laboratory analysis, each monitoring well was opened and allowed to equilibrate, and an electronic water-level meter was used to measure static groundwater levels. The groundwater elevation measurements are provided in Table 1 and a potentiometric surface contour map with inferred groundwater flow directions based on the May 2020 water table elevation measurements is shown on Figure 7.

As indicated in Table 1, measured depths to the water table below the top of inner polyvinylchloride (PVC) well casings at the site in May 2020 ranged from 18.11 feet at monitoring well MW-45A to 21.44 feet at well FRW-1. As shown on Figure 7, the May 2020 water table elevations ranged from 8.60 to 9.81 feet above mean sea level (AMSL), which are similar to the previous (February 2020) water table measurements. The May 2020 water table elevations remained relatively high when compared with historical elevations, which is beneficial in terms of saturated zone reductive dechlorination of soil previously detected to contain 630 milligrams per kilogram (mg/kg) of PCE (soil boring SB-13 in the southwestern portion of the site as shown on Figure 4) at an approximate elevation of 7 feet AMSL (which is below the recent water table elevations), as shown on Figure 6. Based on the measured water table elevations, the inferred direction of shallow groundwater flow within the FDSA is generally to the north-northeast, at an estimated horizontal hydraulic gradient of approximately 0.008.

5.2 Field Parameters

Prior to collection of groundwater samples for laboratory analysis, each monitoring well was opened and allowed to equilibrate, and an electronic water-level meter was used to measure static groundwater levels. Once the static water levels were recorded, the wells were purged using low-flow techniques, and groundwater samples were collected using a peristaltic pump fitted with new, disposable tubing. The monitoring wells were purged until the field parameters of pH, specific conductance, and temperature stabilized, followed by sampling of the wells. Field parameters consisting of pH, specific conductivity, temperature, DO, and oxidation-reduction potential (ORP) were measured at all sampled monitoring wells using a Horiba U52 meter and flow-through cell and the results are documented in Table 2.

The field parameter data obtained within the treatment zone (exclusive of wells MW-45A and MW-98-04, which are outside of the treatment zone) as part of the February 2020 baseline groundwater

monitoring event and May 2020 post-injection groundwater monitoring event are summarized as follows:

- Values of specific conductivity increased from a range of 85 to 151 micro-siemens per centimeter (µS/cm) in February 2020 to a range of 247 µS/cm (at MW-98-01A) to 1,660 µS/cm (at FRW-2) in May 2020, which may be indicative of subsurface distribution of the lactate-based carbon substrate within the treatment zone.
- Groundwater was under anaerobic to mildly aerobic conditions as the monitoring wells revealed February 2020 baseline DO concentrations that ranged from 0.88 milligrams per liter (mg/L) at MW-98-05AR to 4.95 mg/L at FRW-1. None of the post-injection May 2020 groundwater samples revealed detectable DO, which is consistent with anaerobic conditions induced by the injection of electron donor.
- The February 2020 ORP of the groundwater samples from the performance monitoring wells ranged from +81 millivolts (mV) at MW-98-01A to +215 mV at FRW-1, which indicated that the groundwater was under mildly oxidizing conditions. The May 2020 ORP of the groundwater samples ranged from -11 mV at MW-98-05AR to -135 mV at FRW-2, which indicates that the groundwater has transitioned to more reducing conditions in response to the injection of electron donor.
- The February 2020 pH of the groundwater ranged from 5.20 at FRW-1 to 6.14 at MW-98-05AR. The May 2020 pH values were higher as they ranged from 5.83 at MW-98-05AR to 6.64 at MW-98-01A. The injected ABC® carbon substrate contains a phosphate pH buffer, and hydroxyl ions produced from corrosion of ZVI may also have increased the pH within the treatment zone to levels more favorable for *Dhc* development (in general, microbes generally prefer a pH range of 5 to 9 and *Dhc* microbial development is supported at pH values generally between 6 and 8).

5.3 Analytical Laboratory Parameters

Analytical results with associated QA/QC qualifiers are provided in Appendix B, and a data validation report is provided in Appendix C. A comparison of the analyzed parameters in the groundwater samples obtained as part of the quarterly groundwater monitoring events with New York State Ambient Groundwater standards is provided in Table 3. The analytical results are reported in units of micrograms per liter (µg/L), which is equivalent to parts per billion (ppb), or mg/L, which is equivalent to parts per million (ppm). Locations of monitoring wells are identified on Figure 2.

5.3.1 Total Organic Carbon

TOC is an indicator of natural organic carbon as part of baseline site characterization and is also an indicator of substrate distribution during anaerobic bioremediation performance monitoring. TOC concentrations greater than 20 mg/L are desired within an anaerobic treatment zone. Stable or declining total organic carbon concentrations less than 20 mg/L, in conjunction with elevated concentrations of CVOCs and alternate electron acceptors indicate that additional substrate is required to sustain the treatment zone (AFCEE, 2004).

February 2020 TOC concentrations in the monitoring wells ranged from 2.16 mg/L (at MW-98-01A) to 2.66 mg/L (at MW-98-05AR) (Table 3), confirming that addition of carbon substrate was likely required to sustain an anaerobic bioremediation treatment zone. In response to the injection of carbon substrate, May 2020 TOC concentrations increased to a range from 84.3 mg/L (at well MW-98-01A) to 1,930 mg/L (at well FRW-2). The arithmetic mean TOC concentration increased over two orders-of-magnitude, from 2.33 mg/L in February 2020 to 676 mg/L in May 2020. Therefore, TOC

concentrations are favorable for anaerobic bioremediation within the treatment zone based on the May 2020 data, 3 months after completion of the February 2020 carbon substrate and ZVI injection.

5.3.2 Nitrate

Nitrate is an alternate electron acceptor for microbial respiration in the absence of oxygen. Depleted concentrations of nitrate relative to background values indicate that the groundwater environment is sufficiently reducing to sustain nitrate reduction. Nitrate concentrations less than 1 mg/L are desirable for anaerobic dechlorination to occur.

February 2020 nitrate concentrations in the monitoring wells ranged from 0.166 to 1.17 mg/L, indicating that addition of carbon substrate would be beneficial to sustain an anaerobic bioremediation treatment zone. In contrast, none of the May 2020 groundwater samples revealed detectable concentrations of nitrate, at a detection limit of 0.050 mg/L. Nitrate reducing conditions have therefore been demonstrated based on the May 2020 groundwater sample results.

5.3.3 Ferrous Iron

In some cases, ferric iron is used as an electron acceptor during anaerobic biodegradation of organic carbon; however, ferric iron is typically present in solid mineral form. During this process, ferric iron is reduced to ferrous iron, which is soluble in water. Elevated concentrations of ferrous iron indicate that the groundwater environment is sufficiently reducing to sustain iron reduction and for anaerobic dechlorination to occur. However, ferrous iron concentrations may be biased low due to co-precipitation with sulfides. Dependent on the amount of fermentable substrate and bioavailable iron already present in the aquifer, a site may not exhibit a substantial increase in ferrous iron if ferric iron is already low or depleted.

February 2020 dissolved iron concentrations ranged from <0.010 to 0.465 mg/L. These relatively low baseline dissolved iron concentrations were not consistent with strongly reducing conditions. Post-injection May 2020 ferrous iron concentrations increased substantially to a range from 61 mg/L (at well MW-98-01A) to 792 mg/L (at well FRW-2). These elevated concentrations of ferrous iron in response to the delivered carbon substrate and ZVI indicate that the groundwater environment within the treatment zone is sufficiently reducing to sustain iron reduction and for anaerobic dechlorination to occur.

5.3.4 Sulfate

Sulfate is an alternate electron acceptor for microbial respiration in the absence of oxygen, nitrate, and ferric iron. Depleted concentrations of sulfate relative to background values indicate that the groundwater environment is sufficiently reducing to sustain sulfate reduction and for anaerobic dechlorination to occur. Sulfate concentrations less than 20 mg/L are desirable, but not required, for anaerobic dechlorination to occur. High concentrations of sulfate in conjunction with the absence of TOC indicate that additional substrate may be required to promote anaerobic dechlorination.

February 2020 sulfate concentrations detected in the monitoring wells ranged from 6.84 to 12.1 mg/L; these relatively low native sulfate concentrations were concluded to not pose a high electron donor demand within the groundwater treatment zone. In response to the February 2020 electron donor injection event, the May 2020 groundwater samples revealed even lower sulfate concentrations (a range between <1 to 6.38 mg/L). These results indicate that sulfate reducing conditions have been enhanced within the treatment zone.

5.3.5 Methane/Ethane/Ethene

During methanogenesis, acetate is split to form carbon dioxide and methane, or carbon dioxide is used as an electron acceptor and is reduced to methane. Elevated concentrations of methane indicate that fermentation is occurring in a highly anaerobic environment and that reducing conditions are appropriate for anaerobic dechlorination of CVOCs to occur. Elevated concentrations of ethene and ethane indicate that anaerobic dechlorination of CVOCs is already occurring. Methane concentrations greater than 1 mg/L are desirable, but not required, for anaerobic dechlorination to occur. Methane concentrations less than 1 mg/L and the accumulation of cDCE or VC may indicate that additional substrate is required to drive reducing conditions into an environment suitable for reduction of these compounds. If elevated concentrations of ethene or ethane are not detected, potential accumulation of cDCE or VC should be monitored.

February 2020 baseline methane concentrations ranged from <0.010 to 0.25 mg/L, and none of the monitoring wells contained detectable concentrations of ethene or ethane. Post-injection May 2020 methane concentrations ranged from <0.010 mg/L (at well FRW-4) to 4.8 mg/L (at well FRW-3). May 2020 groundwater samples from wells FRW-1 and FRW-2 also revealed methane concentrations greater than 1 mg/L. These findings indicate that, other than at the margins of the groundwater treatment area based on methane data from wells FRW-4 and MW-98-01A, fermentation is already occurring in a highly anaerobic environment and that reducing conditions are appropriate for anaerobic dechlorination of CVOCs to occur. The May 2020 groundwater samples did not contain detectable concentrations of ethene or ethane, such that complete reductive dechlorination has as yet not commenced.

5.3.6 Chlorinated Volatile Organic Compounds

Based on concentration and frequency of detection, the predominant constituents of interest detected within the FDSA groundwater treatment zone are PCE and its degradation products TCE and cDCE (Table 3). The extent of detectable PCE concentrations based on the May 2020 groundwater sample results is illustrated on Figure 8. As shown on Figure 8, at three months post-injection, the PCE concentrations exceed the New York State Ambient Groundwater Standard of 5 micrograms per liter (µg/L) at well FRW-1 (79 µg/L), and slightly exceed that standard at well FRW-2 (6.2 µg/L) and well FRW-3 (6.0 µg/L).

5.3.6.1 Well FRW-1

Between February 2020 and May 2020, the PCE concentration declined from 320 to 79 µg/L, the TCE concentration increased from 1.4 to 7.5 µg/L, and the cDCE concentration increased from <0.2 to 42 µg/L. Evaluation of molar fractions (molar concentrations of PCE, TCE, cDCE, VC, and ethene divided by the molar concentration of total ethenes) over time is a method used to determine if biodegradation has been stimulated.

As shown on Figure D-1, the 2018 and 2019 (pre-injection) detected molar fractions at well FRW-1 ranged from 78 to 99% PCE, 0 to 8% TCE, and 0 to 16% cDCE. Based on the May 2020 groundwater monitoring results, the detected molar fractions at well FRW-1 were as follows: 49% PCE, 6% TCE, and 45% cDCE. Without sequential dechlorination, the ratios of the targeted compounds would all remain relatively constant, even if all of the concentrations would decline (due to dilution, for example).

5.3.6.2 Well FRW-2

Between September 2019 and May 2020, the PCE concentration increased slightly from 2.18 to 6.2 µg/L, the TCE concentration remained non-detect, and the cDCE concentration increased from non-detect to 11 µg/L. As shown on Figure D-2, the 2018 and 2019 (pre-injection) detected molar

fractions at well FRW-2 ranged from 30 to 100% PCE, 0 to 6% TCE, and 0 to 64% cDCE. Based on the May 2020 groundwater monitoring results, the detected molar fractions at well FRW-1 were as follows: 25% PCE, 0% TCE, and 75% cDCE. As indicated above, in response to the February 2020 injection of electron donor the PCE molar fraction declined while the cDCE molar fraction increased.

5.3.6.3 Well FRW-3

Between September 2019 and May 2020, the PCE concentration decreased slightly from 6.57 to 6.0 µg/L, the TCE concentration decreased slightly from 0.36 µg/L to non-detect, the cDCE concentration increased from 1.64 to 120 µg/L, and the VC concentration increased from non-detect to 3.4J[1] µg/L. As shown on Figure D-3, the 2018 and 2019 (pre-injection) detected molar fractions at well FRW-3 ranged from 34 to 83% PCE, 3 to 7% TCE, and 14 to 59% cDCE. Based on the May 2020 groundwater monitoring results, the detected molar fractions at well FRW-3 were as follows: 3% PCE, 0% TCE, 93% cDCE, and 4% VC.

As indicated above, in response to the February 2020 injection of electron donor, the PCE and TCE molar fractions declined while the cDCE and VC molar fractions increased. The initial detection of VC was likely facilitated by the bioaugmentation with *Dhc* microbial culture that was conducted as part of the February 2020 remedial action injection event, as *Dhc* are the only known microbes capable of dechlorination of chlorinated ethenes beyond cDCE.

5.3.6.4 Well MW-98-05AR

Between February 2020 and May 2020, the PCE concentration decreased from 26J to 4.5 µg/L, the TCE concentration increased slightly from 1.2 to 2.3 µg/L, the cDCE concentration increased from 1.4 to 110 µg/L, and the VC concentration increased from non-detect to 4.2J µg/L. As shown on Figure D-3, the 2018 and 2019 (pre-injection) detected molar fractions at well FRW-3 ranged from 64 to 100% PCE, 0 to 5% TCE, and 0 to 31% cDCE. Based on the May 2020 groundwater monitoring results, the detected molar fractions at well FRW-3 were as follows: 2% PCE, 1% TCE, 91% cDCE, and 6% VC.

In response to the February 2020 injection of electron donor, the PCE and TCE molar fractions declined while the cDCE and VC molar fractions increased. As noted with the May 2020 groundwater sample obtained from well FRW-3, the initial detection of VC was likely facilitated by the bioaugmentation with *Dhc* microbial culture that was conducted as part of the February 2020 remedial action injection event.

5.3.6.5 Other Wells

Well FRW-4 inside of the groundwater treatment area and wells MW-45A and MW-98-04 outside of the treatment area did not reveal any VOC concentrations that exceeded New York State Ambient Groundwater Standards based on the May 2020 groundwater monitoring results.

5.3.7 Ketones

Post-injection May 2020 groundwater samples obtained from wells FRW-1 through FRW-4, MW-98-05AR and MW-98-04 located inside of the groundwater treatment zone contained concentrations of acetone, 2-butanone, 2-hexanone and 4-methyl-2-pentanone as high as 1,200 µg/L, 680J µg/L, 150 µg/L, and 2.3J µg/L, respectively. When an impacted aquifer is amended with electron donor, a small portion of the organic matter in that system may be converted to these ketones. These ketone detections may be a consequence of highly effective dechlorination reactions and possibly associated

[1] Qualified by project laboratory as an estimated value between the limit of detection and limit of quantification.

with enhanced activities of *Clostridium* sp. or other ketone-producing fermenters that also dechlorinate ethenes (Suthersan and Payne, 2005). Experience shows that even relatively high concentrations of acetone and other ketone intermediates are quickly attenuated and prove not to represent a concern outside of groundwater treatment areas. The results of future groundwater monitoring events will be evaluated in terms of ketone generation, to determine if any corrective measures would be appropriate.

6. CONCLUSIONS

This Report has been prepared to present May 2020 performance monitoring results of February 2020 electron donor injection that was designed to treat PCE and its anaerobic degradation products in groundwater at the FDSA. The results of the initial post-injection groundwater monitoring event can be summarized as follows:

1. Post-injection May 2020 DO and ORP values were generally substantially lower than the February 2020 baseline values, which is consistent with anaerobic conditions induced by the February 2020 injection of electron donor.
2. The injected ABC® carbon substrate contains a phosphate pH buffer, and hydroxyl ions produced from corrosion of ZVI may also have facilitated increased detected pH values within the treatment zone between February and May 2020, to levels more favorable for *Dhc* development.
3. In response to the February 2020 injection of carbon substrate, average TOC concentrations within the treatment zone increased over two-orders-of-magnitude between February and May 2020, which is indicative of effective subsurface distribution of electron donor over a relatively short timeframe.
4. Nitrate reducing conditions were rapidly created after injection of carbon substrate, as nitrate concentrations decreased to non-detect by May 2020 at all wells within the treatment zone.
5. Post-injection May 2020 ferrous iron concentrations increased rapidly from less than 0.47 mg/L to a range from 61 to 792 mg/L. These elevated concentrations of ferrous iron in response to the delivered carbon substrate and ZVI indicate that the groundwater environment within the treatment zone is sufficiently reducing to sustain iron reduction and for anaerobic dechlorination.
6. February 2020 sulfate concentrations detected in the monitoring wells ranged from 6.84 to 12.1 mg/L. In response to the February 2020 electron donor injection event, the May 2020 groundwater samples revealed even lower sulfate concentrations (a range between <1 to 6.38 mg/L). These results indicate that sulfate reducing conditions have been enhanced within the treatment zone.
7. February 2020 baseline methane concentrations were less than 0.25 mg/L. Post-injection May 2020 methane concentrations ranged as high as 4.8 mg/L. These findings indicate that fermentation is already occurring in a highly anaerobic environment and that reducing conditions are appropriate for anaerobic dechlorination of CVOCs to occur.
8. Between February and May 2020, cDCE concentrations (relative to parent compound PCE) increased substantially in groundwater samples from wells FRW-1, FRW-2, FRW-3 and MW-98-05AR within the treatment zone. Without sequential dechlorination, the ratios of the targeted compounds would all remain relatively constant, even if all of the concentrations would decline (due to dilution, for example).

9. The initial detection of VC at wells FRW-3 and MW-98-05AR in May 2020 was likely facilitated by the bioaugmentation with *Dhc* microbial culture that was conducted as part of the February 2020 remedial action injection event, as *Dhc* are the only known microbes capable of dechlorination of chlorinated ethenes beyond cDCE.

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TABLES

Table 1
Groundwater Elevation Measurements
Former Rowe Industries Superfund Site
Sag Harbor, New York

Well ID	PVC Well Casing Elevation[1]	Sample Date	Depth to Water[2]	GW Elevation
FRW-1	31.00	2/19/2020-2/20/2020	22.00	9.00
		2/24/2020	21.31	9.69
		5/19/2020	21.44	9.56
FRW-2	25.55	2/19/2020-2/20/2020	NM	NM
		2/24/2020	19.85	5.70
		5/19/2020	NR	NR
FRW-3	29.36	2/19/2020-2/20/2020	NM	NM
		2/24/2020	19.70	9.66
		5/19/2020	19.55	9.81
FRW-4	28.73	2/19/2020-2/20/2020	NM	NM
		2/24/2020	19.05	9.68
		5/19/2020	18.89	9.84
MW-98-01A	30.47	2/19/2020-2/20/2020	20.70	9.77
		2/24/2020	NM	NM
		5/19/2020	20.78	9.69
MW-98-05AR	29.26	2/19/2020-2/20/2020	20.00	9.26
		2/24/2020	NM	NM
		5/19/2020	20.66	8.60
MW98-05BR	29.76	5/19/2020	19.54	10.22
MW-45A	27.44	2/19/2020-2/20/2020	18.20	9.24
		2/24/2020	18.28	9.16
		5/19/2020	18.11	9.33
MW-45B	27.63	5/19/2020	17.98	9.65
MW-98-04	28.00	2/19/2020-2/20/2020	18.30	9.70
		2/24/2020	18.41	9.59
		5/19/2020	18.26	9.74
MW98-04B	27.94	5/19/2020	18.17	9.77
MW-28A	25.90	5/19/2020	16.67	9.23
MW-28B	25.99	5/19/2020	16.58	9.41
MW-58A	31.48	5/19/2020	21.74	9.74
MW-58B	31.46	5/19/2020	21.70	9.76

Abbreviations:
GW -- Groundwater
NM -- Not measured
NR - Not reported as the groundwater level measurement is considered unreliable.

Notes:
1. Elevation is reported as feet above mean sea level using North American Vertical Datum of 1988 (NAVD88)
2. Depth is reported as feet below PVC Well Casing Elevation

Table 2
Groundwater Field Parameter Results
Former Rowe Industries Superfund Site
Sag Harbor, New York

Parameter		pH	Dissolved oxygen	Oxidation Reduction Potential	Specific Conductivity	Temperature
Units		S.U.	mg/L	mV	uS/cm	°C
Monitoring Well ID	Sample Date					
FRW-1	2/19/2020	5.20	4.95	+215	85	11.23
	5/20/2020	5.93	0.00	-81	468	14.65
FRW-2	5/20/2020	6.21	0.00	-135	1,660	12.46
FRW-3	5/20/2020	6.44	0.00	-132	1,360	13.08
FRW-4	5/20/2020	6.39	0.00	-112	456	13.98
MW-98-01A	2/19/2020	5.70	1.20	+81	141	10.90
	5/20/2020	6.64	0.00	-127	247	15.97
MW-98-05AR	2/19/2020	6.14	0.88	+82	151	11.38
	5/19/2020	5.83	0.00	-11	407	12.76
MW-45A	2/20/2020	6.00	0.11	+124	149	9.85
	5/19/2020	6.00	0.00	+128	179	12.83
MW-98-04	2/19/2020	5.67	0.48	+130	157	10.44
	5/19/2020	6.28	0.00	+25	206	12.95

Notes:
S.U. = Standard Units
mg/L = milligrams per Liter
mV = millivolts
uS/cm = microsiemens per centimeter
°C = Celsius

Table 3
Summary of Groundwater Sample Analytical Results
Former Rowe Industries Superfund Site
Sag Harbor, New York

Location		NY State Ambient Groundwater Standards	FRW1	FRW1	FRW-1	FRW-2	FRW-3
Field Sample ID			FRW1-20200220	DUP-20200220	FRW-1-200520	FRW-2-200520	FRW-3-200520
Sample Method			Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
Sample Date			2/20/2020	2/20/2020	5/20/2020	5/20/2020	5/20/2020
Comments				Field Duplicate			
VOC							
	Acetone	50	U (1)	U (1)	46 (1)	**1200 (20)**	**97 (5)**
	Benzene	1	U (0.2)	U (0.2)	U (0.2)	U (1)	U (1)
	2-Butanone	50	U (0.2)	U (0.2)	49 (0.2)	**680 J (1)**	**570 J (1)**
	Carbon Disulfide	60	U (0.2)	U (0.2)	0.46 J (0.2)	U (1)	U (1)
	1,1-Dichloroethane	5	U (0.2)	U (0.2)	U (0.2)	U (1)	U (1)
	cis-1,2-Dichloroethene	5	U (0.2)	U (0.2)	**42 (0.2)**	**11 (1)**	**120 (1)**
	2-Hexanone	50	U (0.2)	U (0.2)	3.5 (0.2)	**150 (1)**	**82 (1)**
	4-Methyl-2-pentanone		U (0.2)	U (0.2)	U (0.2)	2.3 J (1)	U (1)
	Tetrachloroethene	5	**320 (2)**	**320 (2)**	**79 (0.2)**	**6.2 (1)**	**6 (1)**
	Toluene	5	U (0.2)	U (0.2)	U (0.2)	1.6 J (1)	U (1)
	1,1,1-Trichloroethane	5	0.57 (0.2)	0.68 (0.2)	U (0.2)	U (1)	U (1)
	Trichloroethene	5	1.4 (0.2)	1.4 (0.2)	**7.5 (0.2)**	U (1)	U (1)
	Vinyl Chloride	2	U (0.2)	U (0.2)	U (0.2)	U (1)	**3.4 J (1)**
WQ							
	Organic Carbon (total)		2170 (1000)	2340 (1000)	687000 (10000)	1930000 (100000)	868000 (100000)
	Nitrate	10000	166 (50)	179 (50)	U (50)	U (50)	U (50)
	Sulfate	250000	12100 (1000)	11800 (1000)	U (1000)	2300 (1000)	4500 (1000)
PDIST							
	Ethane		U (10)	U (10)	U (10)	U (50)	U (100)
	Ethene		U (10)	U (10)	U (10)	U (50)	U (100)
	Methane		U (10)	U (10)	1100 (10)	3200 (50)	4800 (100)
INORG (dissolved)							
	Iron		U (10)	U (10)	248000 (1000)	792000 (1000)	621000 (1000)

Notes:
1 All concentrations are presented in ug/L.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY State Ambient Groundwater Standards are **boldfaced**.

Abbreviations:
VOC -- Volatile Organic Compounds.
WQ -- Water Quality.
PDIST -- Petroleum Distillates.
INORG -- Inorganics.
U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
--- Not Analyzed.

Table 3
Summary of Groundwater Sample Analytical Results
Former Rowe Industries Superfund Site
Sag Harbor, New York

	Location	FRW-4	MW-45A	MW-45A	MW-98-01A	MW-98-01A
	Field Sample ID	FRW-4-200520	MW-45A-20200220	MW-45A-200519	MW-98-01A-20200220	MW-98-01A-200520
	Sample Method	Peristaltic Pump	Bladder Pump	Peristaltic Pump	Bladder Pump	Peristaltic Pump
	Sample Date	5/20/2020	2/20/2020	5/19/2020	2/20/2020	5/20/2020
	Comments					
VOC						
	Acetone	14 (1)	U (1)	U (1)	U (1)	3.7 (1)
	Benzene	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	2-Butanone	31 (0.2)	U (0.2)	U (0.2)	U (0.2)	**93 (0.2)**
	Carbon Disulfide	0.69 (0.2)	U (0.2)	U (0.2)	U (0.2)	0.3 J (0.2)
	1,1-Dichloroethane	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	cis-1,2-Dichloroethene	0.51 (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	2-Hexanone	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	4-Methyl-2-pentanone	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	Tetrachloroethene	1.7 (0.2)	U (0.2)	U (0.2)	4.1 (0.2)	2.2 (0.2)
	Toluene	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	1,1,1-Trichloroethane	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	Trichloroethene	0.27 J (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
	Vinyl Chloride	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
WQ						
	Organic Carbon (total)	268000 (10000)	---	---	2160 (1000)	84300 (10000)
	Nitrate	U (50)	---	---	1170 (50)	1360 (50)
	Sulfate	4890 (1000)	---	---	8890 (1000)	6380 (1000)
PDIST						
	Ethane	U (10)	---	---	U (10)	U (10)
	Ethene	U (10)	---	---	U (10)	U (10)
	Methane	U (10)	---	---	250 (10)	47 (10)
INORG (dissolved)						
	Iron	223000 (1000)	---	---	232 (10)	61000 (200)

Notes:
1 All concentrations are presented in ug/L.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY State Ambient Groundwater Standards are **boldfaced**.

Abbreviations:
VOC -- Volatile Organic Compounds.
WQ -- Water Quality.
PDIST -- Petroleum Distillates.
INORG -- Inorganics.
U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
--- Not Analyzed.

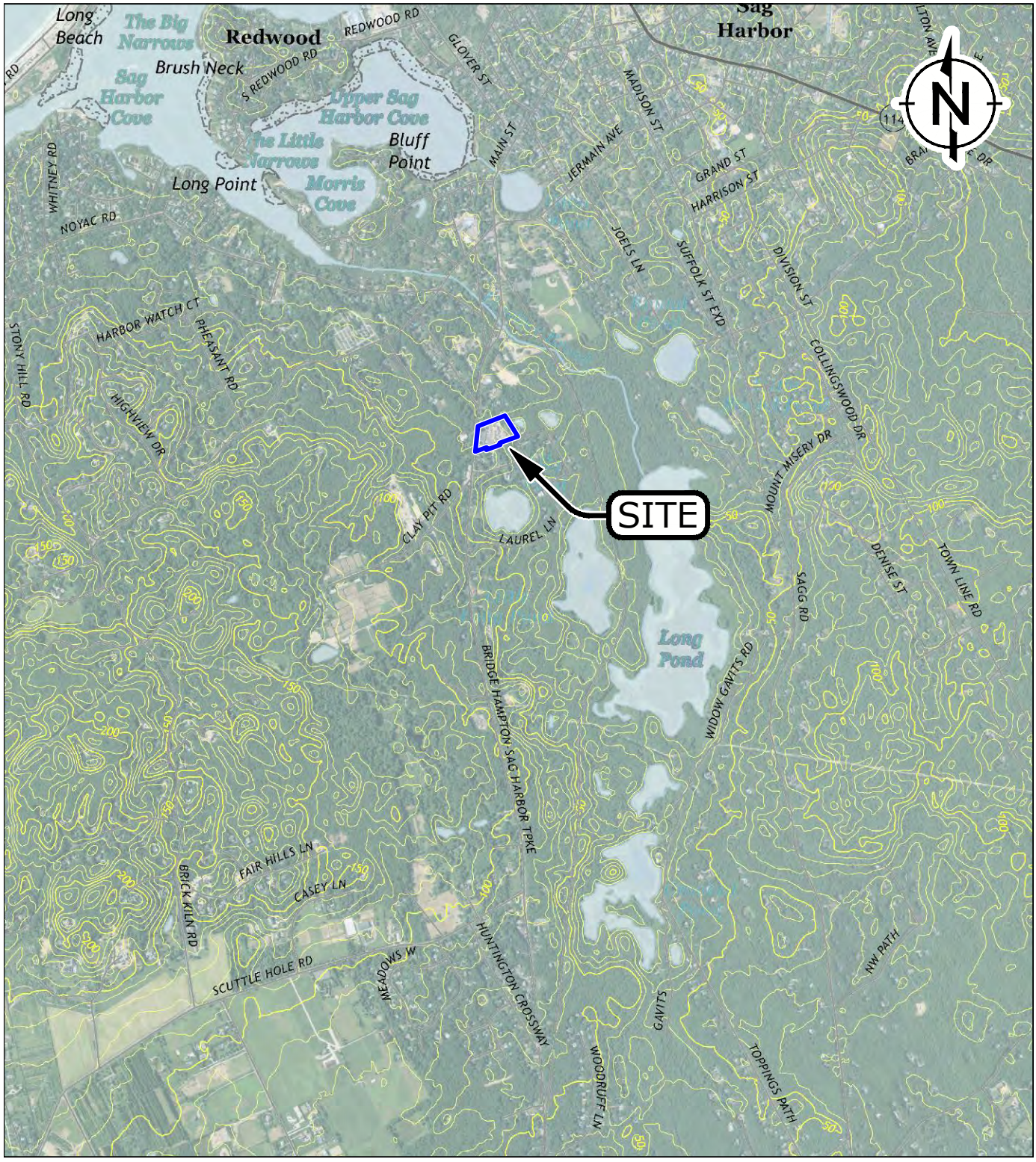
Table 3
Summary of Groundwater Sample Analytical Results
Former Rowe Industries Superfund Site
Sag Harbor, New York

Location	MW-98-04	MW-98-04	MW-98-05AR	MW-98-05AR	MW-98-05AR
Field Sample ID	MW-98-04-20200219	MW-98-04-200519	MW-98-05AR-20200219	MW-98-05AR-200519	DUP01-200519
Sample Method	Bladder Pump	Peristaltic Pump	Bladder Pump	Peristaltic Pump	Peristaltic Pump
Sample Date	2/19/2020	5/19/2020	2/19/2020	5/19/2020	5/19/2020
Comments					Field Duplicate
VOC					
Acetone	U (1)	3.6 (1)	U (1)	26 (1)	30 (1)
Benzene	U (0.2)	U (0.2)	U (0.2)	0.21 J (0.2)	0.22 J (0.2)
2-Butanone	U (0.2)	4 J (0.2)	U (0.2)	**86 J (0.2)**	**72 (0.2)**
Carbon Disulfide	U (0.2)	U (0.2)	U (0.2)	0.55 (0.2)	0.47 J (0.2)
1,1-Dichloroethane	U (0.2)	U (0.2)	U (0.2)	2.3 (0.2)	2.3 (0.2)
cis-1,2-Dichloroethene	U (0.2)	4 (0.2)	1.4 (0.2)	**110 (0.2)**	**100 (0.2)**
2-Hexanone	U (0.2)	0.23 J (0.2)	U (0.2)	3.7 (0.2)	4.8 (0.2)
4-Methyl-2-pentanone	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
Tetrachloroethene	U (0.2)	4.9 (0.2)	**26 J (0.2)**	4.5 (0.2)	4.4 (0.2)
Toluene	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
1,1,1-Trichloroethane	U (0.2)	U (0.2)	3.5 (0.2)	U (0.2)	U (0.2)
Trichloroethene	U (0.2)	0.24 J (0.2)	1.2 (0.2)	2.3 (0.2)	2.7 (0.2)
Vinyl Chloride	U (0.2)	U (0.2)	U (0.2)	**4.2 J (0.2)**	U (0.2)
WQ					
Organic Carbon (total)	---	---	2660 (1000)	220000 (10000)	492000 (10000)
Nitrate	---	---	649 (50)	U (50)	U (50)
Sulfate	---	---	6840 (1000)	U (1000)	U (1000)
PDIST					
Ethane	---	---	U (10)	U (10)	U (10)
Ethene	---	---	U (10)	U (10)	U (10)
Methane	---	---	250 (10)	750 (10)	740 (10)
INORG (dissolved)					
Iron	---	---	465 (10)	122000 (200)	113000 (200)

Notes:
1 All concentrations are presented in ug/L.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY State Ambient Groundwater Standards are **boldfaced**.

Abbreviations:
VOC -- Volatile Organic Compounds.
WQ -- Water Quality.
PDIST -- Petroleum Distillates.
INORG -- Inorganics.
U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
--- Not Analyzed.

FIGURES



CONTOUR INTERVAL 10 FEET

0 1/2 1 MILE

0 2000 4000 FEET

LEGEND:

PROPERTY BOUNDARY (APPROXIMATE)

QUADRANGLE LOCATION

SOURCE:
2016 USGS 7.5 Minute Series Sag Harbor, New York Topographic Quadrangle.
Site Location; N: 40.9831° W: 72.3008° WGS84

RAMBOLL

DRAFTED BY: HJW | DATE: 4/9/2020

SITE LOCATION MAP

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

FIGURE 1

1690016505

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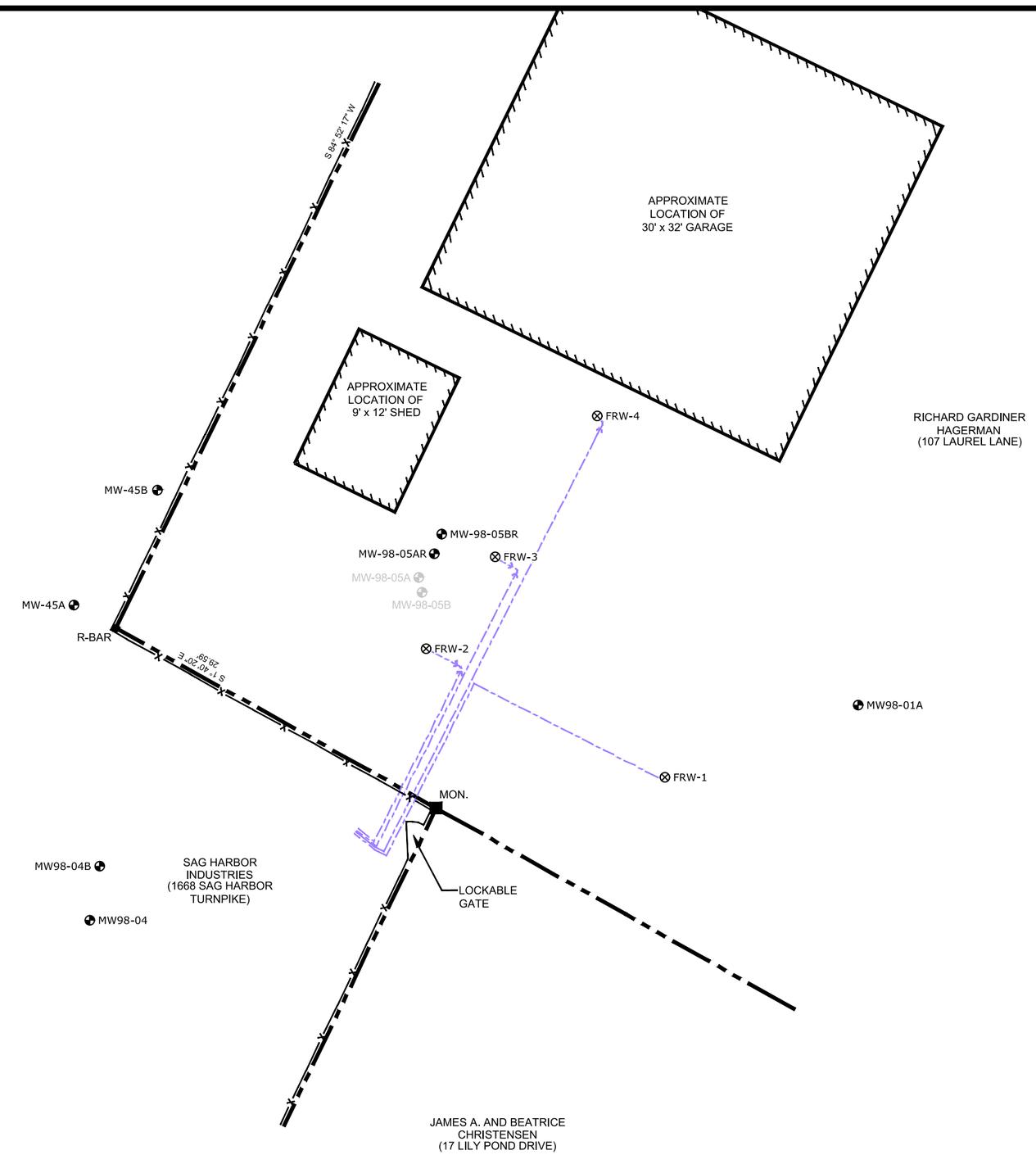


LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- FRW-3 — FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- MW-98-04 — GROUNDWATER MONITOR WELL
- MW-98-05B — DAMAGED MONITOR WELL DECOMMISSIONED IN DECEMBER 2015

NOTE:

1. 'R' IN WELL DESIGNATION INDICATES REPLACEMENT WELL.

0 10

SCALE IN FEET

SOURCE: WSP USA, SEPTEMBER 2018 PCE PLUME MAP, 11/06/2018.

SITE LAYOUT
FORMER DRUM STORAGE AREA

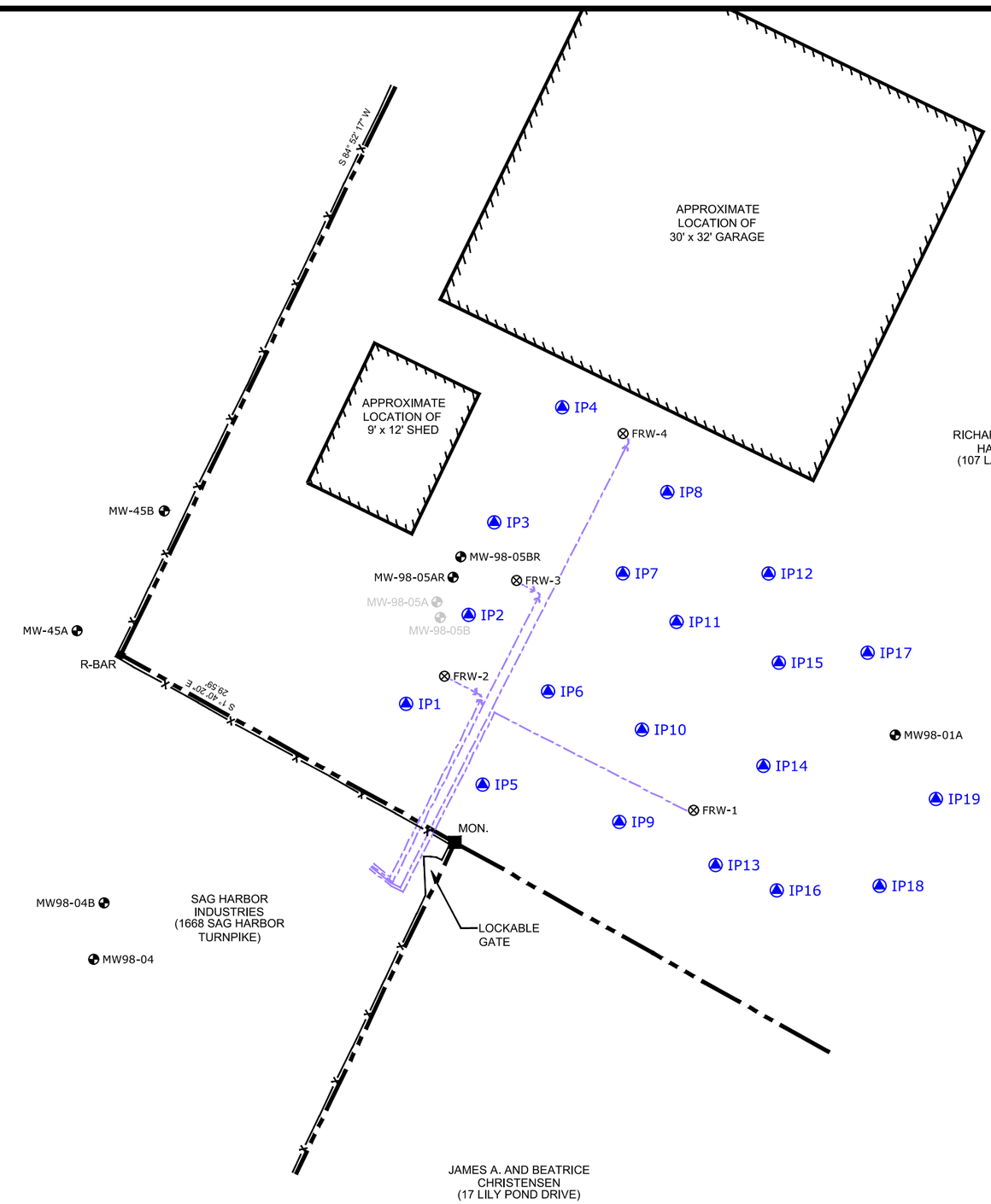
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE
2

DRAFTED BY: HJW	DATE: 4/9/2020	1690016505

L:\Loop Project Files_CAD\1690016505_Kraft_Sag_Harbor\Acad\2020-04\02_Site Layout.dwg



LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- FRW-3 — FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- MW-98-04 — GROUNDWATER MONITOR WELL
- MW-98-05B — DAMAGED MONITOR WELL DECOMMISSIONED IN DECEMBER 2015
- FEBRUARY 2020 INJECTION LOCATION

NOTE:

1. 'R' IN WELL DESIGNATION INDICATES REPLACEMENT WELL.

0 10

SCALE IN FEET

SOURCE: WSP USA, SEPTEMBER 2018 PCE PLUME MAP, 11/06/2018.

FEBRUARY 2020 ELECTRON DONOR INJECTION LOCATIONS

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 3

DRAFTED BY: HJW	DATE: 4/9/2020	1690016505

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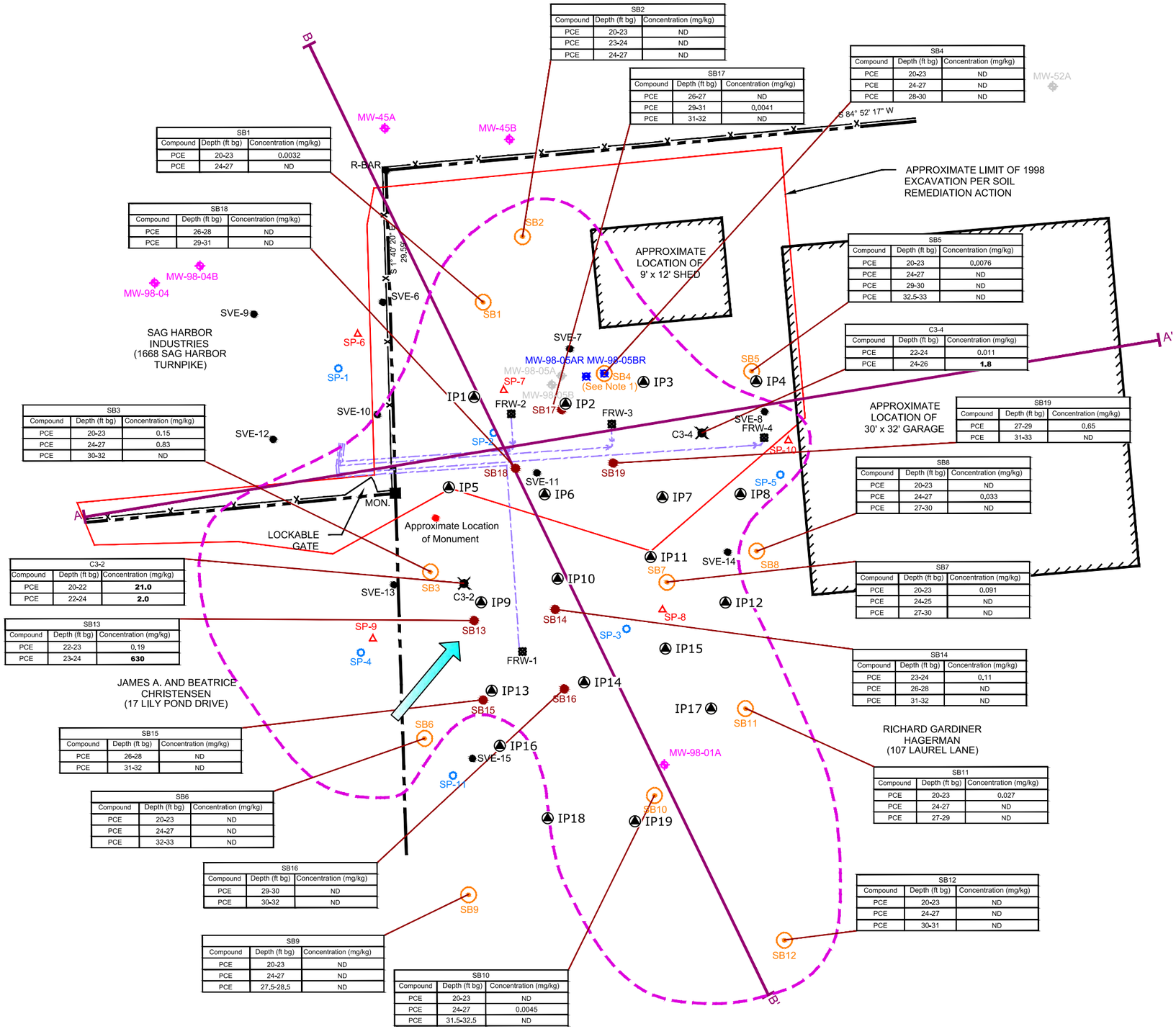


SB2		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	23-24	ND
PCE	24-27	ND

SB17		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	26-27	ND
PCE	29-31	0.0041
PCE	31-32	ND

SB4		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	ND
PCE	28-30	ND

SB1		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	0.0032
PCE	24-27	ND

SB18		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	26-28	ND
PCE	29-31	ND

SB5		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	0.0076
PCE	24-27	ND
PCE	29-30	ND
PCE	32.5-33	ND

C3-4		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	22-24	0.011
PCE	24-26	**1.8**

SB3		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	0.15
PCE	24-27	0.83
PCE	30-32	ND

SB19		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	27-29	0.65
PCE	31-33	ND

SB8		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	0.033
PCE	27-30	ND

C3-2		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-22	**21.0**
PCE	22-24	**2.0**

SB7		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	0.091
PCE	24-25	ND
PCE	27-30	ND

SB13		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	22-23	0.19
PCE	23-24	**630**

SB14		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	23-24	0.11
PCE	26-28	ND
PCE	31-32	ND

SB15		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	26-28	ND
PCE	31-32	ND

SB11		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	0.027
PCE	24-27	ND
PCE	27-29	ND

SB6		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	ND
PCE	32-33	ND

SB16		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	29-30	ND
PCE	30-32	ND

SB12		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	ND
PCE	30-31	ND

SB9		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	ND
PCE	27.5-28.5	ND

SB10		
Compound	Depth (ft bg)	Concentration (mg/kg)
PCE	20-23	ND
PCE	24-27	0.0045
PCE	31.5-32.5	ND

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- APPROXIMATE EXTENT OF CLAY LENS (~25 - 33 ft.bg.)
- FRW-3 — FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- MW-98-04 — GROUNDWATER MONITOR WELL LOCATION
- JANUARY 2003 BORING LOCATION
- DECEMBER 2015 BORING LOCATION
- MW-98-05B — DECOMMISSIONED MONITOR WELL
- REPLACEMENT MONITOR WELL INSTALLED IN DECEMBER 2015
- SP-10 — SHALLOW AIR SPARGE WELL LOCATION
- SP-5 — DEEP AIR SPARGE WELL LOCATION
- SVE-9 — SVE WELL LOCATION
- JUNE 2018 SOIL BORING
- GROUNDWATER FLOW DIRECTION
- FEBRUARY 2020 INJECTION LOCATION

NOTES:
1. BORING SB4 WAS COMPLETED AS MW-98-05BR.
2. A BOLD VALUE INDICATES AN EXCEEDANCE OF THE ARAR.

0 10
SCALE IN FEET

SOURCE: WSP USA, FDSA CONCENTRATIONS IN SOIL, 02/21/2019.

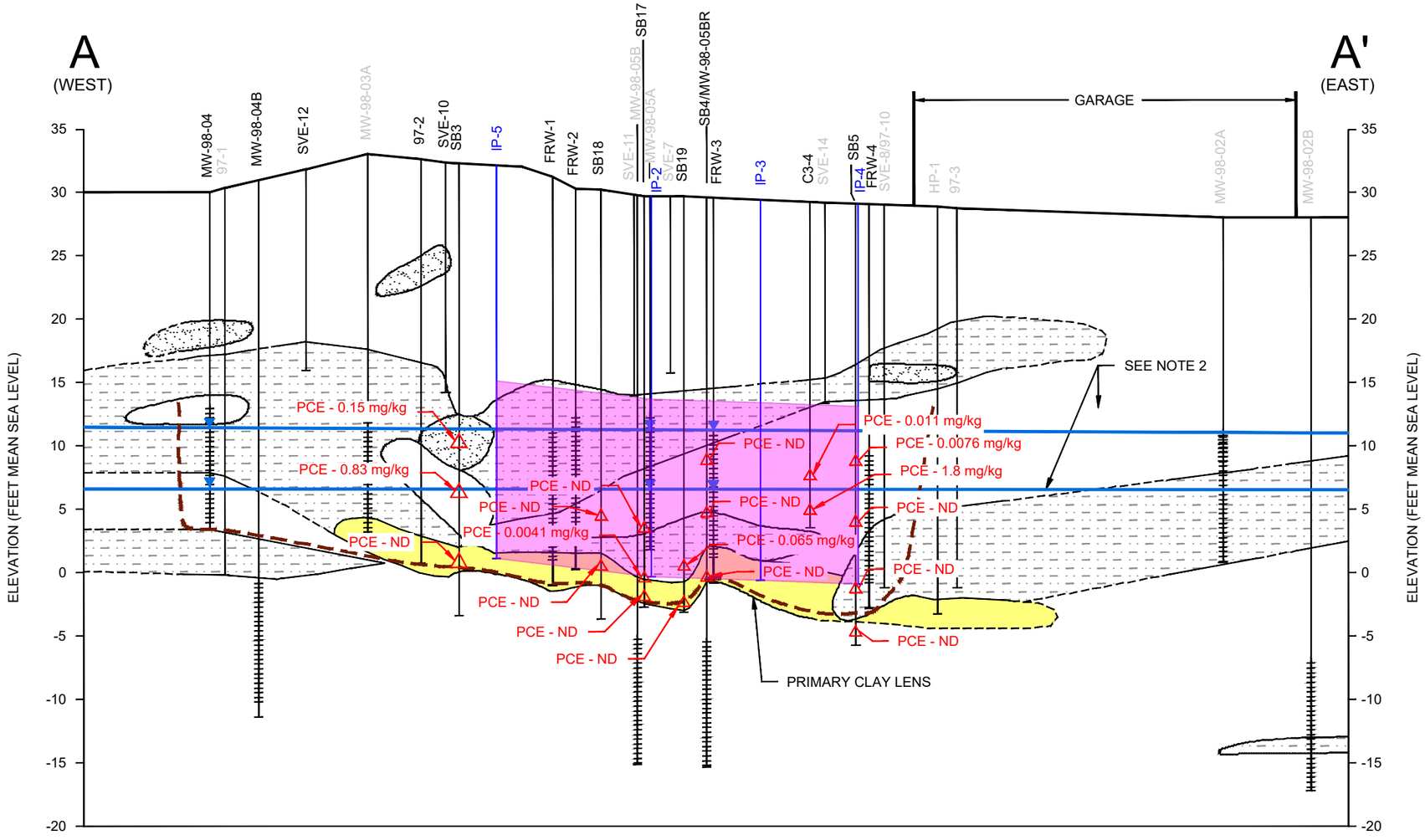
PRE-TREATMENT
PCE CONCENTRATIONS IN SOIL
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 4

DRAFTED BY: HJW | DATE: 4/10/2020 | 1690016505

L:\Loop Project Files_CAD\1690016505_Kraft_Sag_Harbor\Acad\2020-04\05_PCE Concentrations in Soil.dwg



LEGEND

- WATER TABLE ELEVATION
- SCREEN SETTING
- DEPTH OF BORING
- FINE TO COARSE SAND
- FINE TO COARSE SAND AND SILTY CLAY
- FINE SAND AND SILT
- SILT AND CLAY
- MW-98-03A — UNLOCATED OR DECOMMISSIONED MONITOR WELL, NOT USED IN DETERMINING GROUNDWATER ELEVATION, ONLY GEOLOGY
- ESTIMATED GEOLOGIC BOUNDARY
- FEBRUARY 2020 INJECTION LOCATION
- APPROXIMATE BOUNDARY WHERE PCE CONCENTRATIONS IN THE GROUNDWATER EXCEED THE ARAR AT LEAST PART OF THE TIME
- △ SATURATED SOIL SAMPLE LOCATION
- INJECTION INTERVAL

NOTES:
1. HORIZONTAL CROSS SECTION LINES ARE DEPICTED ON FIGURE 5.
2. LOW AND HIGH GROUNDWATER ELEVATIONS SHOWN ARE FOR RECORDED WATER ELEVATION DATA FROM 2003 TO 2018 AND RANGE FROM APPROXIMATELY 6.1 FT TO 11 FT ABOVE MEAN SEA LEVEL.
3. BOLD VALUE INDICATES AN EXCEEDANCE OF THE ARAR.

0 10 HORIZONTAL SCALE IN FEET

0 10 VERTICAL SCALE IN FEET

SOURCE: WSP USA, FDSA CROSS-SECTION A-A', 02/21/2019.

GEOLOGIC CROSS-SECTION A-A'

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 5

DRAFTED BY: HJW | DATE: 4/10/2020 | 1690016505

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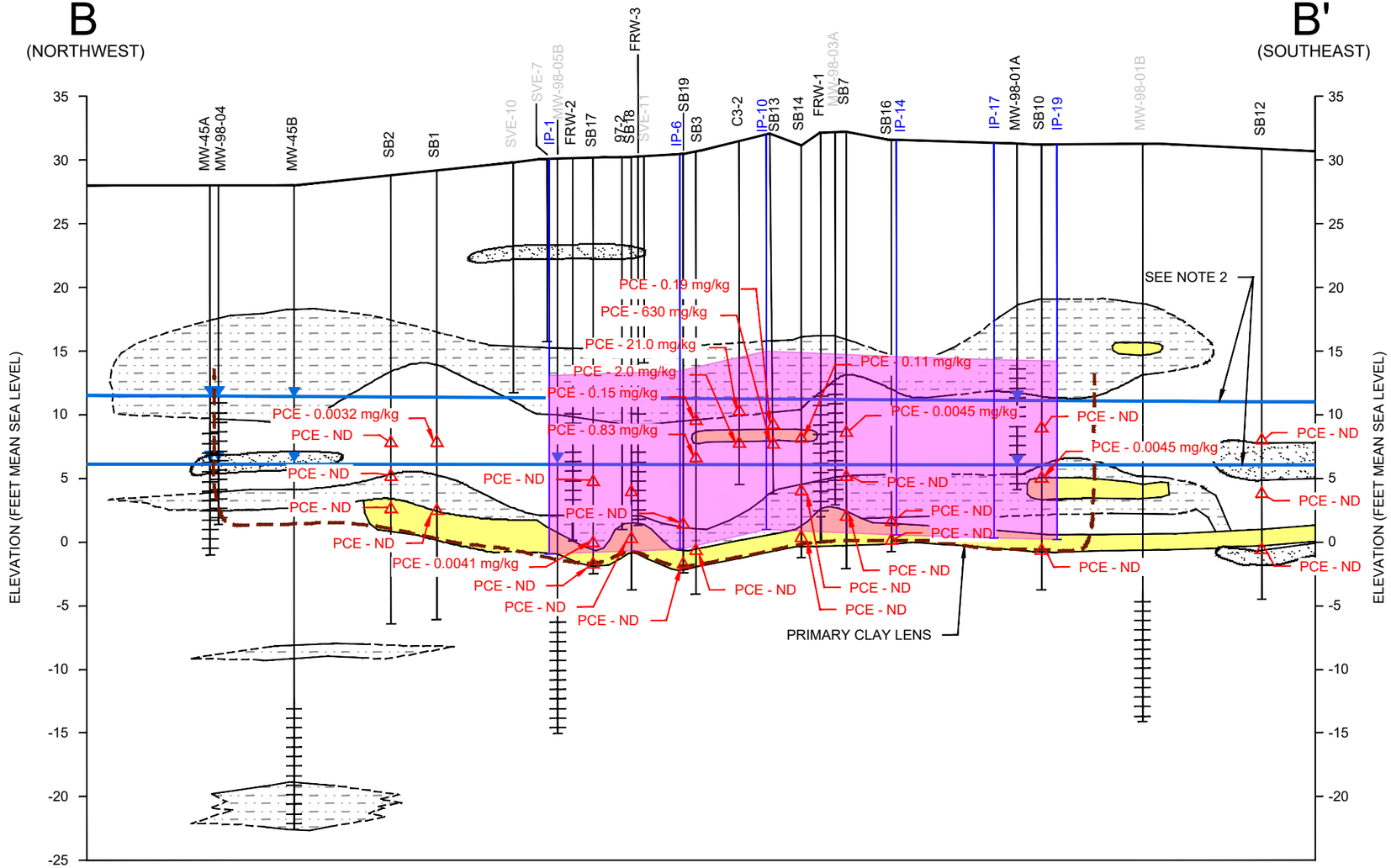

LEGEND

- WATER TABLE ELEVATION
- SCREEN SETTING
- DEPTH OF BORING
- FINE TO COARSE SAND
- FINE TO COARSE SAND AND SILTY CLAY
- FINE SAND AND SILT
- SILT AND CLAY
- MW-98-03A — UNLOCATED OR DECOMMISSIONED MONITOR WELL, NOT USED IN DETERMINING GROUNDWATER ELEVATION, ONLY GEOLOGY
- ESTIMATED GEOLOGIC BOUNDARY
- FEBRUARY 2020 INJECTION LOCATION
- APPROXIMATE BOUNDARY WHERE PCE CONCENTRATIONS IN THE GROUNDWATER EXCEED THE ARAR AT LEAST PART OF THE TIME
- △ SATURATED SOIL SAMPLE LOCATION
- INJECTION INTERVAL

NOTES:
1. HORIZONTAL CROSS SECTION LINES ARE DEPICTED ON FIGURE 5.
2. LOW AND HIGH GROUNDWATER ELEVATIONS SHOWN ARE FOR RECORDED WATER ELEVATION DATA FROM 2003 TO 2018 AND RANGE FROM APPROXIMATELY 6.1 FT TO 11 FT ABOVE MEAN SEA LEVEL.
3. BOLD VALUE INDICATES AN EXCEEDANCE OF THE ARAR.

SOURCE: WSP USA, FDSA CROSS-SECTION B-B', 12/19/2018.

0 10 HORIZONTAL SCALE IN FEET

0 10 VERTICAL SCALE IN FEET

GEOLOGIC CROSS-SECTION B-B'

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 6

DRAFTED BY: HJW | DATE: 4/10/2020 | 1690016505

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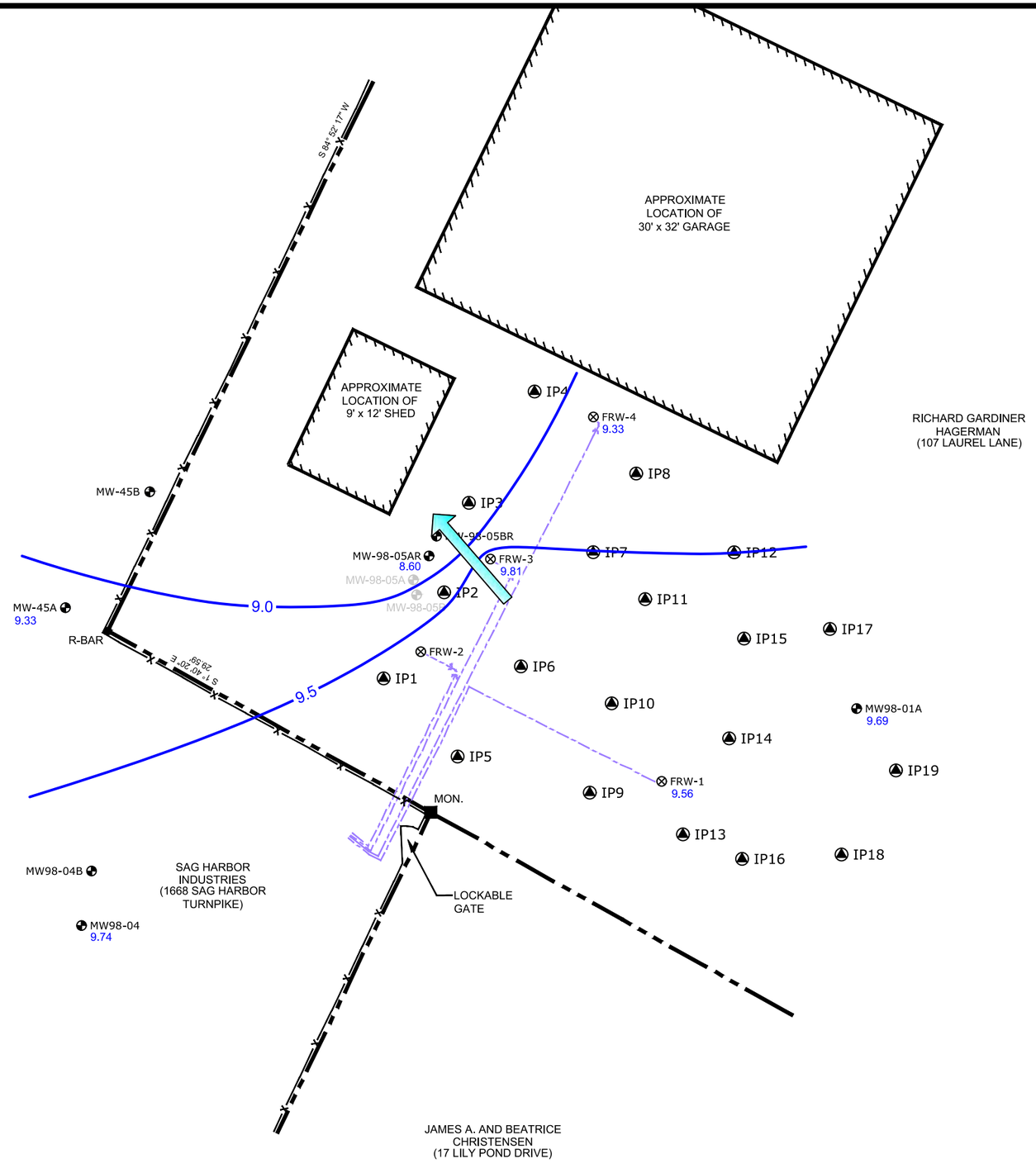


LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- FRW-3 — FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- MW-98-04 — GROUNDWATER MONITOR WELL
- MW-98-05B — DAMAGED MONITOR WELL DECOMMISSIONED IN DECEMBER 2015
- 9.56 — POTENTIOMETRIC SURFACE ELEVATION (FT MSL)
- 9.5 — POTENTIOMETRIC SURFACE ELEVATION CONTOUR (0.5-FOOT INTERVALS)
- GROUNDWATER FLOW DIRECTION
- FEBRUARY 2020 INJECTION LOCATION

NOTES:

1. 'R' IN WELL DESIGNATION INDICATES REPLACEMENT WELL.

0 10
SCALE IN FEET

SOURCE: WSP USA, SEPTEMBER 2018 PCE PLUME MAP, 11/06/2018.

POTENTIOMETRIC SURFACE MAP (MAY 19, 2020)

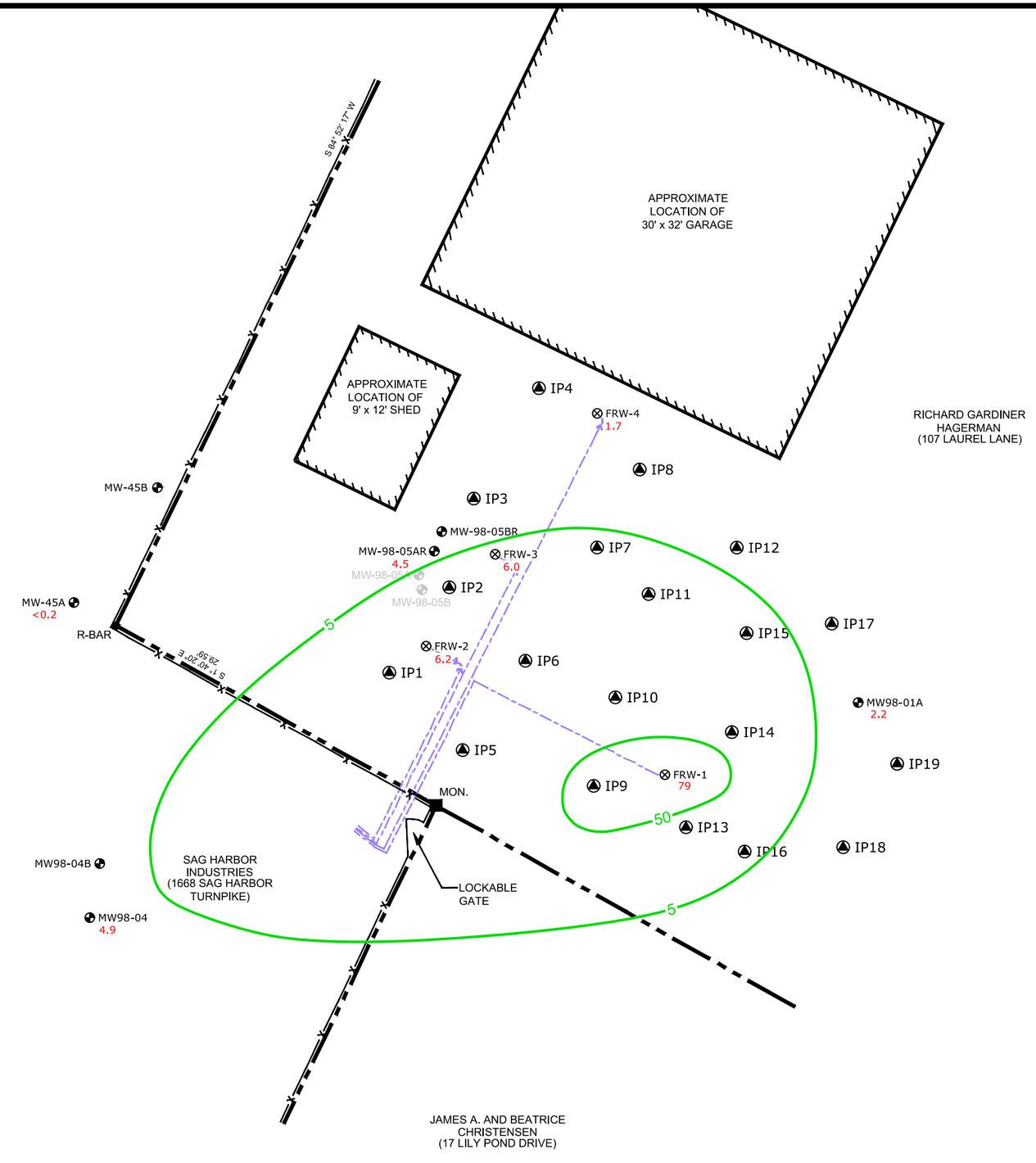
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 7

DRAFTED BY: HJW	DATE: 7/8/2020	1690016505

L:\Loop Project Files_CAD\1690016505_Kraft_Sag_Harbor\Acad\2020-07\07_Potentiometric Surface Map.dwg



LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- FRW-3 — FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- MW-98-04 — GROUNDWATER MONITOR WELL
- 2.2 — PCE CONCENTRATION (µg/L)
- NS — NOT SAMPLED
- MW-98-05B — DAMAGED MONITOR WELL DECOMMISSIONED IN DECEMBER 2015
- 5 — PCE CONCENTRATION CONTOURS (µg/L)
- FEBRUARY 2020 INJECTION LOCATION

NOTES:

1. J = ESTIMATED CONCENTRATION AT OR ABOVE THE LEVEL OF DETECTION AND BELOW THE LEVEL OF QUANTIFICATION
2. 'R' IN WELL DESIGNATION INDICATES REPLACEMENT WELL.

0 10
SCALE IN FEET

SOURCE: WSP USA, SEPTEMBER 2018 PCE PLUME MAP, 11/06/2018.

PCE CONCENTRATIONS IN GROUNDWATER (MAY 19-20, 2020)

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

RAMBOLL

FIGURE 8

DRAFTED BY: HJW | DATE: 7/8/2020 | 1690016505

L:\Loop Project Files_CAD\1690016505_Kraft_Sag_Harbor\Acad\2020-07\08_PCE Concentrations in GW.dwg

APPENDIX A

GROUNDWATER FIELD SAMPLING LOGS

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW-45A

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/19/20
Personnel - Matthew Smart
Weather - 60°F Partly Cloudy
Sampling Device - Peristaltic Pump

Pump Controller - /
Refill - / sec
Discharge - / sec
Pressure - / psi

Well Information

Well Vault PID - _____ ppb
Well Casing PID - _____ ppb
Well Diameter - _____ Inches

Measured Depth to Bottom - 28.9 ft BTOC
Screened Zone - _____ ft BGS
Depth to Pump Intake - 18-11 ft BGS
Pre-Pump (Static) Depth to Water - _____ ft BTOC
Post-Pump Depth to Water - _____ ft BTOC

Well Evacuation Data

Stabilization Criteria: ± 0.1 SU | ± 3 % | ± 10 % | ± 3 % | ± 10 mV | ± 10 % | 0.3 ft

Time	Vol. L	Rate mL/min	pH Std	Cond. ms/cm	Turb. NTU	Temp. C	ORP mV	DO mg/L	DTW ft	Appearance or Comments
1015	--	250	6.10	0.181	66.6	12.96	144	0.00	18.12	cloudy
1020		250	6.10	0.181	41.0	12.93	142	0.00	18.12	cloudy
1025		250	6.08	0.181	49.5	12.92	141	0.00	18.12	cloudy
1030		250	6.06	0.180	41.7	12.91	136	0.00	18.12	clear
1035		250	6.06	0.180	34.7	12.88	134	0.00	18.12	clear
1040		250	6.06	0.180	30.0	12.88	133	0.00	18.12	clear
1045		250	6.04	0.180	22.1	12.87	132	0.00	18.12	clear
1050		250	6.02	0.180	13.3	12.84	130	0.00	18.12	clear
1055		250	6.01	0.180	11.8	12.85	129	0.00	18.12	
1100		250	6.01	0.180	8.7	12.87	129	0.00	18.12	
1105		250	6.01	0.179	8.3	12.87	129	0.00	18.12	
1110		250	6.00	0.179	9.1	12.85	128	0.00	18.12	
1115		250	6.00	0.179	9.0	12.83	128	0.00	18.12	
0:00	***SAMPLE***	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Notes / Sample Information

Appearance at Start - cloudy
Appearance After Purging - clear
Approx. Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

Sample ID - MW-45A-200515
Sample Time - 1115

Additional Sample - _____
Additional Sample ID - _____

DTW After Purging - _____ ft bTOC
DTW at Time of Sampling - _____ ft bTOC
Fe^{2+} (kit) _____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes VOC Only

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW-9804

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/19/20
Personnel - M Swett
Weather - 65°F Partly Cloudy
Sampling Device - Geopump Peristaltic

Pump Controller - NA
Refill - ____ sec
Discharge - ____ sec
Pressure - ____ psi

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 0.0 ppb
Well Diameter - 2" Inches

Measured Depth to Bottom - 24.38 ft BTOC
Screened Zone - ____ ft BGS
Depth to Pump Intake - 21 ft BGS
Pre-Pump (Static) Depth to Water - 18.26 ft BTOC
Post-Pump Depth to Water - ____ ft BTOC

Well Evacuation Data

Time	Vol.	Rate	pH	Cond.	Turb.	Temp.	ORP	DO	DTW	Appearance or Comments
1150	-	300	6.27	0.24	31.1	13.0	48	0.00	18.24	cloudy; sulfur odor
1155	-	300	6.29	0.241	26.8	12.96	43	0.00	18.25	" "
1200		300	6.29	0.241	24.6	12.95	40	0.00	18.25	" "
1205		300	6.30	0.241	27.8	12.94	38	0.00	18.25	cloudy
1210		300	6.27	0.226	15.5	12.89	28	0.00	18.25	clear
1215		300	6.32	0.225	13.5	12.86	26	0.00	18.25	clear
1220		300	6.43	0.218	4.9	12.86	23	0.44	18.25	clear
1225		300	6.28	0.210	3.9	12.90	24	0.00	18.24	clear
1230		300	6.28	0.210	3.6	12.91	24	0.00	18.25	" "
1235		300	6.28	0.206	3.6	12.95	25	0.00	18.25	
0:00	SAMPLE	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Notes / Sample Information

Appearance at Start - cloudy
Appearance After Purging - clear
Approx. Total Volume Purged - 13.5 liters
Purge Rate - 300 mL/min

Sample ID - MW-98-04-200514
Sample Time - 1235
Additional Sample - ____
Additional Sample ID - ____
DTW After Purging - ____ ft bTOC
DTW at Time of Sampling - ____ ft bTOC
Fe^{2+} (kit) ____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes VOC

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW 98 05AR

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/19/20
Personnel - Matthew Sweet
Weather - 65°F partly cloudy
Sampling Device - Geopump Peristaltic

Pump Controller -
Refill - / sec
Discharge - / sec
Pressure - / psi

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 2.5 ~~ppb~~ ppm
Well Diameter - 2 Inches

Measured Depth to Bottom - 26.69 ft BTOC
Screened Zone - ft BGS
Depth to Pump Intake - 24 ft BGS
Pre-Pump (Static) Depth to Water - 20.66 ft BTOC
Post-Pump Depth to Water - ft BTOC

Well Evacuation Data

Time	Vol.	Rate	pH	Cond.	Turb.	Temp.	ORP	DO	DTW	Appearance or Comments
		mL/min	SU	mS/cm	NTU	°C	mV	mg/L	ft	
1520	-	250	6.36	0.884	470	12.73	-54	0.00	20.7	Gray, oily, organic odor
1525		250	6.37	0.940	702	12.63	-54	0.00	20.7	
1530		250	6.37	0.720	604	12.60	-52	0.00	20.7	
1535		250	6.24	0.672	582	12.61	-49	0.00	20.7	
1540		250	6.10	0.560	424	12.55	-38	0.00	20.7	
1545		250	5.98	0.499	511	12.57	-27	0.00	20.7	
1550		250	5.86	0.493	240	12.48	-17	0.00	20.7	
1555		250	6.01	0.428	239	12.47	-14	0.00	20.7	
1600		250	5.87	0.416	202	12.70	-12	0.00	20.7	
1605		250	5.88	0.426	189	12.79	-13	0.01	20.7	
1610		250	5.88	0.422	168	12.76	-13	0.00	20.7	
1615		250	5.85	0.401	147	12.78	-12	0.00	20.7	
1620		250	5.83	0.408	141	12.76	-12	0.00	20.7	
1625		250	5.83	0.407	148	12.76	-11	0.00	20.7	
0:00	*SAMPLE*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

01
S01
S01

Notes / Sample Information

Sample ID - MW98-05AR-200519
Sample Time - 1625

Appearance at Start - gray, oily, organic odor
Appearance After Purging - same

Additional Sample -
Additional Sample ID -

Approx. Total Volume Purged - liters
Purge Rate - mL/min

DTW After Purging - ft bTOC
DTW at Time of Sampling - ft bTOC
Fe^{2+} (kit) mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes DUP01-200519 @ 1625
VOC, TOC, Diss Gases, Nitrate Nitrite Sulfate
Diss Fe

RAMBOLL

Low Flow Groundwater Sampling Field Log

Site:
Location:

Monitoring Well - FRW-2

Sampling Information

Date (MM/DD/YY) - 5/20/20
Personnel - Matthew Sweet
Weather - 60F Partly Cloudy
Sampling Device - Geo Pump Peristaltic

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 5.7 ~~ppb~~ ppm
Well Diameter - 4" Inches

Pump Controller - NA
Refill - ____ sec
Discharge - ____ sec
Pressure - ____ psi

Measured Depth to Bottom - ____ ft BTOC
Screened Zone - ____ ft BGS
Depth to Pump Intake - ____ ft BGS
Pre-Pump (Static) Depth to Water - 20.54 ft BTOC
Post-Pump Depth to Water - ____ ft BTOC

Well Evacuation Data

Time	Vol.	Rate	pH	Cond.	Turb.	Temp.	ORP	DO	DTW	Appearance or Comments
0800	--	300	5.98	2.13	244	12.55	-132	0.00	20.54	Cloudy oily odor
0805		300	5.99	2.05	241	12.54	-137	0.00	20.5	" "
0810		200	5.80	2.74	217	12.62	-126	0.00	20.5	" "
0815		200	5.92	2.90	426	12.68	-135	0.00	20.5	" "
0820		200	5.94	2.70	314	12.64	-149	0.00	20.5	" "
0825		200	5.97	2.52	294	12.62	-155	0.00	20.5	" "
0830		200	6.38	1.68	184	12.47	-136	0.00	20.5	" "
0835		200	6.33	1.67	181	12.47	-136	0.00	20.5	" "
0840		200	6.26	1.67	185	12.47	-136	0.00	20.5	" "
0845		200	6.23	1.67	181	12.46	-136	0.00	20.5	" "
0850		200	6.21	1.66	180	12.46	-135	0.00	20.5	" "
0:00	***SAMPLE***	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Notes / Sample Information

Appearance at Start - Cloudy, oily, odor
Appearance After Purging - Same
Approx. Total Volume Purged - ____ liters
Purge Rate - ____ mL/min

Sample ID - FRW-2-200520
Sample Time - 0850
Additional Sample - ____
Additional Sample ID - ____
DTW After Purging - ____ ft bTOC
DTW at Time of Sampling - ____ ft bTOC
Fe^{2+} (kit) ____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes ☆Note water is very oily, with reduction reagent issues measuring GW's turbidity

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - FRW-3

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/20/20
Personnel - Matthew Sweet
Weather - 60°F Partly Cloudy
Sampling Device - Geo Pump peristaltic

Pump Controller - NA
Refill - _____ sec
Discharge - _____ sec
Pressure - _____ psi

Well Information

Well Vault PID - _____ ppb
Well Casing PID - 12.4 ppb
Well Diameter - 4" Inches

Measured Depth to Bottom - _____ ft BTOC
Screened Zone - _____ ft BGS
Depth to Pump Intake - _____ ft BGS
Pre-Pump (Static) Depth to Water - 19.7 ft BTOC
Post-Pump Depth to Water - _____ ft BTOC

Well Evacuation Data

Time	Vol.	Rate	pH	Cond.	Turb.	Temp.	ORP	DO	DTW	Appearance or Comments
0915	--	250	6.46	1.58	250	12.77	-132	0.00	19.7	Cloudy, oily, oda
0920		250	6.46	1.55	251	12.78	-133	0.00	19.7	" "
0925		250	6.47	1.53	251	12.8	-133	0.00	19.7	" "
0930		250	6.47	1.53	249	12.8	-133	0.00	19.7	" "
0935		250	6.47	1.53	249	12.82	-134	0.00	19.7	" "
0940		250	6.47	1.52	257	12.82	-135	0.00	19.7	" "
0945		250	6.46	1.45	203	12.93	-134	0.00	19.7	" "
0950		250	6.46	1.44	206	12.93	-134	0.00	19.7	" "
0955		250	6.46	1.41	172	13.02	-134	0.00	19.7	" "
1000		250	6.44	1.38	161	13.07	-132	0.00	19.7	
1005		250	6.44	1.37	163	13.09	-132	0.00	19.7	
1010		250	6.44	1.36	159	13.08	-132	0.00	19.7	
0:00	***SAMPLE***	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Sample ID - FRW-3-200520
Sample Time - 1010

Notes / Sample Information

Appearance at Start - cloudy oily odor
Appearance After Purging - same

Additional Sample - _____
Additional Sample ID - _____

Approx. Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

DTW After Purging - _____ ft bTOC
DTW at Time of Sampling - _____ ft bTOC
Fe^{2+} (kit) _____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes _____

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - FRW-1-200520

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/20/20
Personnel - Matt Hook, Sarah
Weather - 60°F Partly Cloudy
Sampling Device - Peristaltic

Pump Controller - NA
Refill - _____ sec
Discharge - _____ sec
Pressure - _____ psi

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 3.4 ppb
Well Diameter - 4" Inches

Measured Depth to Bottom - _____ ft BTOC
Screened Zone - _____ ft BGS
Depth to Pump Intake - _____ ft BGS
Pre-Pump (Static) Depth to Water - 21.15 ft BTOC
Post-Pump Depth to Water - _____ ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
1635	--	200	5.77	2.07	665	15.05	-59	0.00	21.15	Cloudy, oily, odor 01
1040		200	5.86	0.852	239	14.78	-68	0.00	21.15	" "
1045		200	5.86	0.815	210	14.77	-68	0.00	21.2	
1050		200	5.92	0.600	171	14.71	-72	0.00	21.2	S01
1055		200	5.92	0.593	166	14.70	-72	0.00	21.2	
1100		200	5.95	0.486	132	14.64	-76	0.00	21.2	S01
1105		200	5.96	0.481	134	14.63	-77	0.00	21.2	
1110		200	5.94	0.469	122	14.63	-79	0.00	21.2	
1115		200	5.93	0.468	118	14.62	-80	0.00	21.2	
1120		200	5.93	0.468	121	14.64	-81	0.00	21.2	
1125		200	5.93	0.468	121	14.65	-81	0.00	21.2	
1130										
0:00	***SAMPLE***	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Notes / Sample Information

Appearance at Start - cloudy, oily, odor
Appearance After Purging - same
Approx. Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

Sample ID - FRW-1-200520
Sample Time - 1125
Additional Sample - _____
Additional Sample ID - _____
DTW After Purging - _____ ft bTOC
DTW at Time of Sampling - _____ ft bTOC
Fe^{2+} (kit) _____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes _____

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - FRW-4

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/20/20
Personnel - Matthew Sweet
Weather - 65°F Partly Cloudy
Sampling Device - Geo pump Peristaltic

Pump Controller - /
Refill - / sec
Discharge - / sec
Pressure - / psi

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 0.6 ppb
Well Diameter - 4" Inches

Measured Depth to Bottom - _____ ft BTOC
Screened Zone - _____ ft BGS
Depth to Pump Intake - _____ ft BGS
Pre-Pump (Static) Depth to Water - 18.93 ft BTOC
Post-Pump Depth to Water - _____ ft BTOC

Well Evacuation Data

Stabilization Criteria		± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
1300	--	250	6.81	0.461	111	13.93	-109	1.48	18.93	Cloudy, oily, odor
1305		250	6.71	0.457	112	13.91	-110	0.00	18.93	" "
1310		250	6.64	0.454	114	13.90	-116	0.00	18.93	" "
1315		250	6.46	0.450	107	13.94	-112	0.00	18.93	" "
1320		250	6.42	0.451	108	13.96	-113	0.00	18.93	" "
1325		250	6.42	0.451	106	14.00	-113	0.00	19.00	" "
1330		250	6.39	0.454	102	13.99	-112	0.00	19.10	" "
1335		250	6.39	0.456	99.6	13.99	-112	0.00	19.2	" "
1340		250	6.39	0.456	99.9	13.98	-112	0.00	19.2	" "
1345		250	6.39	0.456	99.7	13.98	-112	0.00	19.2	" "
0:00	***SAMPLE***	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Notes / Sample Information

Appearance at Start - cloudy oily odor
Appearance After Purging - same
Approx. Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

Sample ID - FRW-4-200520
Sample Time - 1345
Additional Sample - _____
Additional Sample ID - _____

DTW After Purging - _____ ft bTOC
DTW at Time of Sampling - _____ ft bTOC
Fe^{2+} (kit) _____ mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes _____

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW 98 01A

Site:
Location:

Sampling Information

Date (MM/DD/YY) - 5/20/20
Personnel - M. Hatlow, S. Sweat
Weather - 65-70°F Partly Cloudy
Sampling Device - GeoPump Peristaltic

Pump Controller -
Refill - / sec
Discharge - / sec
Pressure - / psi

Well Information

Well Vault PID - 0.0 ppb
Well Casing PID - 0.5 ppb
Well Diameter - 2" Inches

Measured Depth to Bottom - ft BTOC
Screened Zone - ft BGS
Depth to Pump Intake - ft BGS
Pre-Pump (Static) Depth to Water - 21.04 ft BTOC
Post-Pump Depth to Water - ft BTOC

Well Evacuation Data

Stabilization Criteria ± 0.1 SU ± 3 % ± 10 % ± 3 % ± 10 mV ± 10 % 0.3 ft

Time	Vol. L	Rate mL/min	pH Std	Cond. ms/cm	Turb. NTU	Temp. C	ORP mV	DO mg/L	DTW ft	Appearance or Comments
1415	--	300	6.55	0.637	259	18.09	-130	0.67	21.2	Cloudy, oily, odor
1420		250	6.65	0.639	255	17.41	-145	0.09	21.25	" "
1425		250	6.70	0.512	200	16.38	-144	0.00	21.25	" "
1430		250	6.70	0.495	196	16.86	-144	0.00	21.25	" "
1435		250	6.71	0.321	121	16.63	-143	0.00	21.25	" "
1440		250	6.65	0.287	101	16.28	-133	0.00	21.25	" "
1445		250	6.65	0.280	114	16.26	-133	0.00	21.25	" "
1450		250	6.63	0.253	94.8	16.05	-128	0.00	21.25	" "
1455		250	6.64	0.251	95.2	16.02	-128	0.00	21.25	" "
1500		251	6.64	0.249	99.6	16.00	-127	0.00	21.25	" "
1505		250	6.64	0.247	95.1	15.97	-127	0.00	21.4	" "
0:00	SAMPLE	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Sample ID - MW 98-01A-200520
Sample Time - 1505

Notes / Sample Information

Appearance at Start -
Appearance After Purging -
Approx. Total Volume Purged - liters
Purge Rate - mL/min

Additional Sample -
Additional Sample ID -
DTW After Purging - ft bTOC
DTW at Time of Sampling - ft bTOC
Fe^{2+} (kit) mg/L

Analyses - TAL Metals (dissolved); Alkalinity; Chloride; Chemical Oxygen Demand; Total Disolved Solids (TDS); Hardness; Nitrogen and Sulfate

Notes

APPENDIX B

ANALYTICAL LABORATORY REPORT

Technical Report

prepared for:

Ramboll US Corp.
100 Pearl Street, East Tower, Third Floor
Hartford CT, 06102
Attention: Mark Mejac

Report Date: 07/09/2020
Client Project ID: 1690016505 Kraft Sag Harbor/Frmr Rowe Ind.
York Project (SDG) No.: 20E0617

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: 07/09/2020
Client Project ID: 1690016505 Kraft Sag Harbor/Frmr Rowe Ind.
York Project (SDG) No.: 20E0617

Ramboll US Corp.
100 Pearl Street, East Tower, Third Floor
Hartford CT, 06102
Attention: Mark Mejac

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 May 20, 2020 and listed below. The project was identified as your project: **1690016505 Kraft Sag Harbor/Frmr Rowe Ind.**.

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.

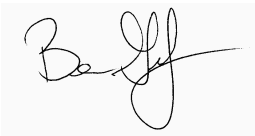
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
20E0617-01	MW-45A-200519	Water	05/19/2020	05/20/2020
20E0617-02	MW-98-04-200519	Water	05/19/2020	05/20/2020
20E0617-03	MW-98-05AR-200519	Water	05/19/2020	05/20/2020
20E0617-04	FB01-200519	Water	05/19/2020	05/20/2020
20E0617-05	DUP01-200519	Water	05/19/2020	05/20/2020
20E0617-06	TB01-200519	Water	05/19/2020	05/20/2020
20E0617-07	FRW-2-200520	Water	05/20/2020	05/20/2020
20E0617-08	FRW-3-200520	Water	05/20/2020	05/20/2020
20E0617-09	FRW-1-200520	Water	05/20/2020	05/20/2020

General Notes for York Project (SDG) No.: 20E0617

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: 07/09/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: MW-45A-200519 **York Sample ID:** 20E0617-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 11:15 am	05/20/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW-45A-200519 **York Sample ID:** 20E0617-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 11:15 am	05/20/2020

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
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP

Sample Information

Client Sample ID: MW-45A-200519 **York Sample ID:** 20E0617-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 11:15 am	05/20/2020

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
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:18 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: MW-45A-200519 **York Sample ID:** 20E0617-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 11:15 am	05/20/2020

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
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:18	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/27/2020 17:18	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.5 %*	*79-122*

Sample Information

Client Sample ID: MW-98-04-200519 **York Sample ID:** 20E0617-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:35 pm	05/20/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP	05/27/2020 17:50	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50	TMP

Sample Information

Client Sample ID: MW-98-04-200519 **York Sample ID:** 20E0617-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:35 pm	05/20/2020

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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
78-93-3	**2-Butanone**	**4.0**	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
591-78-6	**2-Hexanone**	**0.23**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
67-64-1	**Acetone**	**3.6**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 17:50	TMP

Sample Information

Client Sample ID: MW-98-04-200519 **York Sample ID:** 20E0617-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:35 pm	05/20/2020

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
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-59-2	**cis-1,2-Dichloroethylene**	**4.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50	TMP

Sample Information

Client Sample ID: MW-98-04-200519 **York Sample ID:** 20E0617-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:35 pm	05/20/2020

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
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 17:50	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
127-18-4	**Tetrachloroethylene**	**4.9**		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
79-01-6	**Trichloroethylene**	**0.24**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/21/2020 06:50	05/27/2020 17:50	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/21/2020 06:50	05/27/2020 17:50	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.7 %*	*79-122*

Sample Information

Client Sample ID: MW-98-05AR-200519 **York Sample ID:** 20E0617-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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

Sample Information

Client Sample ID: MW-98-05AR-200519 **York Sample ID:** 20E0617-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-34-3	**1,1-Dichloroethane**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: **MW-98-05AR-200519** **York Sample ID:** **20E0617-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
78-93-3	**2-Butanone**	**86**	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	**2-Hexanone**	**3.7**		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**26**		ug/L	1.0	2.0	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.21**	J	ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.55**		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	**cis-1,2-Dichloroethylene**	**110**		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/21/2020 06:50	05/27/2020 18:23	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-98-05AR-200519 **York Sample ID:** 20E0617-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/27/2020 18:23	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/27/2020 18:23	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 18:23	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
127-18-4	**Tetrachloroethylene**	**4.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
79-01-6	**Trichloroethylene**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP
75-01-4	**Vinyl Chloride**	**4.2**	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 18:23	TMP

Sample Information

Client Sample ID: **MW-98-05AR-200519** **York Sample ID:** **20E0617-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/21/2020 06:50	05/27/2020 18:23	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.9 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	*** Methane**	**750**		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:33	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:33	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:33	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**122000**		ug/L	200	20	EPA 200.8 Certifications: CTDOH	05/27/2020 07:36	05/28/2020 16:10	BML

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/21/2020 14:41	05/21/2020 19:00	MAO

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	05/21/2020 14:41	05/21/2020 19:00	MAO

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: MW-98-05AR-200519 **York Sample ID:** 20E0617-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 19:00	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**220**		mg/L	10.0	10	SM 5310C	05/21/2020 08:54	05/22/2020 11:26	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: FB01-200519 **York Sample ID:** 20E0617-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 3:45 pm	05/20/2020

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	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications:			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 14:04	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: FB01-200519 **York Sample ID:** 20E0617-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 3:45 pm	05/20/2020

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	**2-Butanone**	**0.93**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	**Acetone**	**12**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: FB01-200519 **York Sample ID:** 20E0617-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 3:45 pm	05/20/2020

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
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/29/2020 14:04	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/29/2020 14:04	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 14:04	TMP

Sample Information

Client Sample ID: FB01-200519 **York Sample ID:** 20E0617-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 3:45 pm	05/20/2020

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
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 14:04	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/29/2020 14:04	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.6 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	* Methane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:36	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:36	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:36	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: FB01-200519 **York Sample ID:** 20E0617-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 3:45 pm	05/20/2020

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	* Iron	21.7		ug/L	10.0	1	EPA 200.8	05/27/2020 07:36	05/28/2020 14:25	BML
							Certifications: CTDOH			

Nitrate as N **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0	05/21/2020 14:41	05/21/2020 19:23	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Nitrite as N **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0	05/21/2020 14:41	05/21/2020 19:23	MAO
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sulfate as SO4 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 19:23	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Organic Carbon **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	ND		mg/L	1.00	1	SM 5310C	05/21/2020 08:54	05/22/2020 11:26	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: DUP01-200519 **York Sample ID:** 20E0617-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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

Sample Information

Client Sample ID: **DUP01-200519** **York Sample ID:** **20E0617-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
75-34-3	**1,1-Dichloroethane**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP	05/28/2020 20:04	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 20:04	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP

Sample Information

Client Sample ID: DUP01-200519 **York Sample ID:** 20E0617-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
78-93-3	**2-Butanone**	**72**		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	**2-Hexanone**	**4.8**		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**30**		ug/L	1.0	2.0	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	**cis-1,2-Dichloroethylene**	**100**		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/28/2020 06:57	05/28/2020 20:04	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: DUP01-200519 **York Sample ID:** 20E0617-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/28/2020 20:04	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/28/2020 20:04	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 20:04	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 20:04	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
127-18-4	**Tetrachloroethylene**	**4.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
79-01-6	**Trichloroethylene**	**2.7**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:04	TMP

Sample Information

Client Sample ID: DUP01-200519 **York Sample ID:** 20E0617-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

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
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/28/2020 06:57	05/28/2020 20:04	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.4 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	*** Methane**	**740**		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:40	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:40	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:40	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**113000**		ug/L	200	20	EPA 200.8 Certifications: CTDOH	05/27/2020 07:36	05/28/2020 16:15	BML

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/21/2020 14:41	05/21/2020 20:31	MAO

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND	HT-01	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	05/21/2020 14:41	05/21/2020 20:31	MAO

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: DUP01-200519 **York Sample ID:** 20E0617-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 4:25 pm	05/20/2020

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 20:31	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**492**		mg/L	10.0	10	SM 5310C	05/21/2020 08:54	05/22/2020 11:26	STN
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: TB01-200519 **York Sample ID:** 20E0617-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:00 am	05/20/2020

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	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	05/29/2020 15:26	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: TB01-200519 **York Sample ID:** 20E0617-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:00 am	05/20/2020

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: TB01-200519 **York Sample ID:** 20E0617-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:00 am	05/20/2020

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
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/29/2020 15:26	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/29/2020 15:26	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	05/29/2020 15:26	TMP

Sample Information

Client Sample ID: TB01-200519 **York Sample ID:** 20E0617-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 19, 2020 12:00 am	05/20/2020

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
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 15:26	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/29/2020 15:26	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.6 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.9 %*	*79-122*

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

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	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-93-3	**2-Butanone**	**680**	CCV-E	ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

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	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
591-78-6	**2-Hexanone**	**150**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
108-10-1	**4-Methyl-2-pentanone**	**2.3**	J	ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
67-64-1	**Acetone**	**1200**		ug/L	20	40	20	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 20:37	TMP
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
108-86-1	Bromobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
156-59-2	**cis-1,2-Dichloroethylene**	**11**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

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
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
98-82-8	Isopropylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
91-20-3	Naphthalene	ND		ug/L	5.0	10	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
104-51-8	n-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
103-65-1	n-Propylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/27/2020 19:29	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	2.5	5.0	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/27/2020 19:29	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 19:29	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
127-18-4	**Tetrachloroethylene**	**6.2**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
108-88-3	**Toluene**	**1.6**	J	ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 19:29	TMP
1330-20-7	Xylenes, Total	ND		ug/L	3.0	7.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/27/2020 19:29	TMP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

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
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*88.0 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.8 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.5 %*			*79-122*						

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	*** Methane**	**3200**		ug/L	50	5	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:47	RB
74-84-0	* Ethane	ND		ug/L	50	5	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:47	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	50	5	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:47	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**792000**		ug/L	1000	100	EPA 200.8 Certifications: CTDOH	05/27/2020 07:36	05/29/2020 12:59	BML

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/21/2020 14:41	05/21/2020 20:54	MAO

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	05/21/2020 14:41	05/21/2020 20:54	MAO

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

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

Sample Information

Client Sample ID: FRW-2-200520 **York Sample ID:** 20E0617-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 8:50 am	05/20/2020

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**2.30**		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 20:54	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**1930**		mg/L	100	100	SM 5310C	05/21/2020 08:54	05/22/2020 11:26	STN
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: FRW-3-200520 **York Sample ID:** 20E0617-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 10:10 am	05/20/2020

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	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	05/21/2020 06:50	05/27/2020 20:02	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: FRW-3-200520 **York Sample ID:** 20E0617-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 10:10 am	05/20/2020

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
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
78-93-3	**2-Butanone**	**570**	CCV-E	ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
591-78-6	**2-Hexanone**	**82**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
67-64-1	**Acetone**	**97**		ug/L	5.0	10	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
108-86-1	Bromobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP

Sample Information

Client Sample ID: FRW-3-200520 **York Sample ID:** 20E0617-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 10:10 am	05/20/2020

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
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-59-2	**cis-1,2-Dichloroethylene**	**120**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-82-8	Isopropylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	5.0	10	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	2.5	5.0	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP

Sample Information

Client Sample ID: FRW-3-200520 **York Sample ID:** 20E0617-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 10:10 am	05/20/2020

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
105-05-5	* p-Diethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50	05/27/2020 20:02	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
127-18-4	**Tetrachloroethylene**	**6.0**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
108-88-3	Toluene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
75-01-4	**Vinyl Chloride**	**3.4**	CCV-E	ug/L	1.0	2.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/27/2020 20:02	TMP
1330-20-7	Xylenes, Total	ND		ug/L	3.0	7.5	5	EPA 8260C Certifications:	05/21/2020 06:50 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/27/2020 20:02	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.4 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	*** Methane**	**4800**		ug/L	100	10	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:55	RB
74-84-0	* Ethane	ND		ug/L	100	10	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:55	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	100	10	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:55	RB

Sample Information

Client Sample ID: FRW-3-200520 **York Sample ID:** 20E0617-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 10:10 am	05/20/2020

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**621000**		ug/L	1000	100	EPA 200.8	05/27/2020 07:36	05/29/2020 13:04	BML
							Certifications: CTDOH			

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	05/21/2020 14:41	05/21/2020 21:16	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	05/21/2020 14:41	05/21/2020 21:16	MAO
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**4.50**		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 21:16	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Organic Carbon

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**868**		mg/L	100	100	SM 5310C	05/26/2020 08:32	05/27/2020 15:18	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: FRW-1-200520 **York Sample ID:** 20E0617-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **FRW-1-200520** **York Sample ID:** **20E0617-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-93-3	**2-Butanone**	**49**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: FRW-1-200520 **York Sample ID:** 20E0617-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
591-78-6	**2-Hexanone**	**3.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
67-64-1	**Acetone**	**46**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-15-0	**Carbon disulfide**	**0.46**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
156-59-2	**cis-1,2-Dichloroethylene**	**42**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP

Sample Information

Client Sample ID: FRW-1-200520 **York Sample ID:** 20E0617-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

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
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/28/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/28/2020 21:10	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	05/28/2020 21:10	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57	05/28/2020 21:10	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
127-18-4	**Tetrachloroethylene**	**79**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
79-01-6	**Trichloroethylene**	**7.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/28/2020 21:10	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/28/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/28/2020 21:10	TMP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: FRW-1-200520 **York Sample ID:** 20E0617-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

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
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.4 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.6 %*			*79-122*						

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	*** Methane**	**1100**		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:59	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:59	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:59	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**248000**		ug/L	1000	100	EPA 200.8 Certifications: CTDOH	05/27/2020 07:36	05/29/2020 13:09	BML

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/21/2020 14:41	05/21/2020 21:39	MAO

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	05/21/2020 14:41	05/21/2020 21:39	MAO

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

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

Sample Information

Client Sample ID: FRW-1-200520 **York Sample ID:** 20E0617-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0617	1690016505 Kraft Sag Harbor/Frmr Rowe Ind.	Water	May 20, 2020 11:25 am	05/20/2020

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	1.00	1	EPA 300.0	05/21/2020 14:41	05/21/2020 21:39	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**687**		mg/L	10.0	10	SM 5310C	05/21/2020 08:54	05/22/2020 11:26	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Analytical Batch Summary

Batch ID: BE00227 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-01	MW-45A-200519	05/21/20
20E0617-02	MW-98-04-200519	05/21/20
20E0617-03	MW-98-05AR-200519	05/21/20
20E0617-07	FRW-2-200520	05/21/20
20E0617-08	FRW-3-200520	05/21/20
BE00227-BLK1	Blank	05/27/20
BE00227-BS1	LCS	05/27/20
BE00227-BSD1	LCS Dup	05/27/20

Batch ID: BE00715 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-05	DUP01-200519	05/28/20
20E0617-07RE1	FRW-2-200520	05/21/20
20E0617-09	FRW-1-200520	05/28/20
BE00715-BLK1	Blank	05/28/20
BE00715-BS1	LCS	05/28/20
BE00715-BSD1	LCS Dup	05/28/20

Batch ID: BE00716 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-04	FB01-200519	05/29/20
20E0617-06	TB01-200519	05/29/20
BE00716-BLK1	Blank	05/29/20
BE00716-BS1	LCS	05/29/20
BE00716-BSD1	LCS Dup	05/29/20

Batch ID: BE00880 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-03	MW-98-05AR-200519	05/21/20
20E0617-04	FB01-200519	05/21/20
20E0617-05	DUP01-200519	05/21/20
20E0617-07	FRW-2-200520	05/21/20
20E0617-09	FRW-1-200520	05/21/20
BE00880-BLK1	Blank	05/21/20
BE00880-BS1	LCS	05/21/20
BE00880-DUP1	Duplicate	05/21/20
BE00880-MS1	Matrix Spike	05/21/20

Batch ID: BE01000 **Preparation Method:** EPA 300 **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-03	MW-98-05AR-200519	05/21/20
20E0617-04	FB01-200519	05/21/20
20E0617-05	DUP01-200519	05/21/20
20E0617-07	FRW-2-200520	05/21/20
20E0617-08	FRW-3-200520	05/21/20
20E0617-09	FRW-1-200520	05/21/20
BE01000-BLK1	Blank	05/21/20
BE01000-BS1	LCS	05/21/20

Batch ID: BE01009 **Preparation Method:** Analysis Preparation **Prepared By:** STN

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-08	FRW-3-200520	05/26/20
BE01009-BLK1	Blank	05/26/20
BE01009-BS1	LCS	05/26/20

Batch ID: BE01051 **Preparation Method:** Preparation for GC Analysis **Prepared By:** RQB

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-03	MW-98-05AR-200519	05/26/20
20E0617-04	FB01-200519	05/26/20
20E0617-05	DUP01-200519	05/26/20
20E0617-07	FRW-2-200520	05/26/20
20E0617-08	FRW-3-200520	05/26/20
20E0617-09	FRW-1-200520	05/26/20
BE01051-BLK1	Blank	05/26/20

Batch ID: BE01067 **Preparation Method:** EPA 200.8 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20E0617-03	MW-98-05AR-200519	05/27/20
20E0617-03RE1	MW-98-05AR-200519	05/27/20
20E0617-04	FB01-200519	05/27/20
20E0617-05	DUP01-200519	05/27/20
20E0617-05RE1	DUP01-200519	05/27/20
20E0617-07	FRW-2-200520	05/27/20
20E0617-07RE1	FRW-2-200520	05/27/20
20E0617-08	FRW-3-200520	05/27/20
20E0617-08RE1	FRW-3-200520	05/27/20
20E0617-09	FRW-1-200520	05/27/20
20E0617-09RE1	FRW-1-200520	05/27/20
BE01067-BLK1	Blank	05/27/20
BE01067-BS1	LCS	05/27/20

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 BE00227 - EPA 5030B											
Blank (BE00227-BLK1)											Prepared & Analyzed: 05/27/2020
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00227 - EPA 5030B											
Blank (BE00227-BLK1)									Prepared & Analyzed: 05/27/2020		
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.53*		*"*	*10.0*		*95.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.70*		*"*	*10.0*		*97.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
LCS (BE00227-BS1)									Prepared & Analyzed: 05/27/2020		
1,1,1,2-Tetrachloroethane	9.32		ug/L	10.0		93.2	82-126				
1,1,1-Trichloroethane	9.89		"	10.0		98.9	78-136				
1,1,2,2-Tetrachloroethane	9.87		"	10.0		98.7	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.14		"	10.0		91.4	82-123				
1,1-Dichloroethane	9.67		"	10.0		96.7	82-129				
1,1-Dichloroethylene	10.5		"	10.0		105	68-138				
1,1-Dichloropropylene	9.94		"	10.0		99.4	83-133				
1,2,3-Trichlorobenzene	8.87		"	10.0		88.7	76-136				
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128				
1,2,4,5-Tetramethylbenzene	9.07		"	10.0		90.7	85-140				
1,2,4-Trichlorobenzene	9.10		"	10.0		91.0	76-137				
1,2,4-Trimethylbenzene	9.88		"	10.0		98.8	82-132				
1,2-Dibromo-3-chloropropane	9.70		"	10.0		97.0	45-147				
1,2-Dibromoethane	9.46		"	10.0		94.6	83-124				
1,2-Dichlorobenzene	9.66		"	10.0		96.6	79-123				
1,2-Dichloroethane	9.39		"	10.0		93.9	73-132				
1,2-Dichloropropane	9.26		"	10.0		92.6	78-126				
1,3,5-Trimethylbenzene	10.0		"	10.0		100	80-131				
1,3-Dichlorobenzene	9.49		"	10.0		94.9	86-122				
1,3-Dichloropropane	9.28		"	10.0		92.8	81-125				
1,4-Dichlorobenzene	9.39		"	10.0		93.9	85-124				
2,2-Dichloropropane	11.7		"	10.0		117	56-150				
2-Butanone	9.83		"	10.0		98.3	49-152				

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 BE00227 - EPA 5030B											
LCS (BE00227-BS1)								Prepared & Analyzed: 05/27/2020			
2-Chlorotoluene	9.68		ug/L	10.0		96.8	79-130				
2-Hexanone	9.07		"	10.0		90.7	51-146				
4-Chlorotoluene	9.70		"	10.0		97.0	79-128				
4-Methyl-2-pentanone	8.93		"	10.0		89.3	57-145				
Acetone	7.18		"	10.0		71.8	14-150				
Benzene	9.79		"	10.0		97.9	85-126				
Bromobenzene	9.97		"	10.0		99.7	78-129				
Bromochloromethane	9.68		"	10.0		96.8	77-128				
Bromodichloromethane	9.36		"	10.0		93.6	79-128				
Bromoform	9.60		"	10.0		96.0	78-133				
Bromomethane	12.3		"	10.0		123	43-168				
Carbon disulfide	11.0		"	10.0		110	68-146				
Carbon tetrachloride	9.93		"	10.0		99.3	77-141				
Chlorobenzene	9.40		"	10.0		94.0	88-120				
Chloroethane	9.54		"	10.0		95.4	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	6.94		"	10.0		69.4	43-155				
cis-1,2-Dichloroethylene	9.77		"	10.0		97.7	83-129				
cis-1,3-Dichloropropylene	9.68		"	10.0		96.8	80-131				
Dibromochloromethane	9.49		"	10.0		94.9	80-130				
Dibromomethane	9.56		"	10.0		95.6	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	9.53		"	10.0		95.3	80-131				
Hexachlorobutadiene	9.16		"	10.0		91.6	67-146				
Isopropylbenzene	9.72		"	10.0		97.2	76-140				
Methyl tert-butyl ether (MTBE)	9.21		"	10.0		92.1	76-135				
Methylene chloride	9.17		"	10.0		91.7	55-137				
Naphthalene	8.91		"	10.0		89.1	70-147				
n-Butylbenzene	9.83		"	10.0		98.3	79-132				
n-Propylbenzene	9.76		"	10.0		97.6	78-133				
o-Xylene	9.23		"	10.0		92.3	78-130				
p- & m- Xylenes	19.0		"	20.0		95.2	77-133				
p-Diethylbenzene	10.6		"	10.0		106	84-134				
p-Ethyltoluene	10.2		"	10.0		102	88-129				
p-Isopropyltoluene	10.0		"	10.0		100	81-136				
sec-Butylbenzene	10.4		"	10.0		104	79-137				
Styrene	9.47		"	10.0		94.7	67-132				
tert-Butylbenzene	8.35		"	10.0		83.5	77-138				
Tetrachloroethylene	9.26		"	10.0		92.6	82-131				
Toluene	9.65		"	10.0		96.5	80-127				
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132				
trans-1,3-Dichloropropylene	9.40		"	10.0		94.0	78-131				
Trichloroethylene	9.73		"	10.0		97.3	82-128				
Trichlorofluoromethane	11.6		"	10.0		116	67-139				
Vinyl Chloride	9.26		"	10.0		92.6	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.47*		*"*	*10.0*		*94.7*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.66*		*"*	*10.0*		*96.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*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 BE00227 - EPA 5030B											
LCS Dup (BE00227-BSD1)								Prepared & Analyzed: 05/27/2020			
1,1,1,2-Tetrachloroethane	9.13		ug/L	10.0		91.3	82-126		2.06	30	
1,1,1-Trichloroethane	9.21		"	10.0		92.1	78-136		7.12	30	
1,1,2,2-Tetrachloroethane	9.61		"	10.0		96.1	76-129		2.67	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	54-165		11.0	30	
1,1,2-Trichloroethane	9.19		"	10.0		91.9	82-123		0.546	30	
1,1-Dichloroethane	9.04		"	10.0		90.4	82-129		6.73	30	
1,1-Dichloroethylene	9.33		"	10.0		93.3	68-138		11.5	30	
1,1-Dichloropropylene	9.23		"	10.0		92.3	83-133		7.41	30	
1,2,3-Trichlorobenzene	8.85		"	10.0		88.5	76-136		0.226	30	
1,2,3-Trichloropropane	9.87		"	10.0		98.7	77-128		3.68	30	
1,2,4,5-Tetramethylbenzene	8.58		"	10.0		85.8	85-140		5.55	30	
1,2,4-Trichlorobenzene	8.82		"	10.0		88.2	76-137		3.13	30	
1,2,4-Trimethylbenzene	9.05		"	10.0		90.5	82-132		8.77	30	
1,2-Dibromo-3-chloropropane	9.28		"	10.0		92.8	45-147		4.43	30	
1,2-Dibromoethane	9.46		"	10.0		94.6	83-124		0.00	30	
1,2-Dichlorobenzene	9.05		"	10.0		90.5	79-123		6.52	30	
1,2-Dichloroethane	9.30		"	10.0		93.0	73-132		0.963	30	
1,2-Dichloropropane	8.94		"	10.0		89.4	78-126		3.52	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		9.21	30	
1,3-Dichlorobenzene	8.80		"	10.0		88.0	86-122		7.55	30	
1,3-Dichloropropane	9.29		"	10.0		92.9	81-125		0.108	30	
1,4-Dichlorobenzene	8.71		"	10.0		87.1	85-124		7.51	30	
2,2-Dichloropropane	10.5		"	10.0		105	56-150		11.4	30	
2-Butanone	8.16		"	10.0		81.6	49-152		18.6	30	
2-Chlorotoluene	8.68		"	10.0		86.8	79-130		10.9	30	
2-Hexanone	9.49		"	10.0		94.9	51-146		4.53	30	
4-Chlorotoluene	8.79		"	10.0		87.9	79-128		9.84	30	
4-Methyl-2-pentanone	9.51		"	10.0		95.1	57-145		6.29	30	
Acetone	7.94		"	10.0		79.4	14-150		10.1	30	
Benzene	9.36		"	10.0		93.6	85-126		4.49	30	
Bromobenzene	9.14		"	10.0		91.4	78-129		8.69	30	
Bromochloromethane	9.39		"	10.0		93.9	77-128		3.04	30	
Bromodichloromethane	8.95		"	10.0		89.5	79-128		4.48	30	
Bromoform	9.77		"	10.0		97.7	78-133		1.76	30	
Bromomethane	11.5		"	10.0		115	43-168		6.46	30	
Carbon disulfide	10.1		"	10.0		101	68-146		7.86	30	
Carbon tetrachloride	9.02		"	10.0		90.2	77-141		9.60	30	
Chlorobenzene	8.98		"	10.0		89.8	88-120		4.57	30	
Chloroethane	10.1		"	10.0		101	65-136		5.70	30	
Chloroform	9.00		"	10.0		90.0	82-128		5.93	30	
Chloromethane	8.34		"	10.0		83.4	43-155		18.3	30	
cis-1,2-Dichloroethylene	9.16		"	10.0		91.6	83-129		6.44	30	
cis-1,3-Dichloropropylene	9.20		"	10.0		92.0	80-131		5.08	30	
Dibromochloromethane	9.46		"	10.0		94.6	80-130		0.317	30	
Dibromomethane	9.56		"	10.0		95.6	72-134		0.00	30	
Dichlorodifluoromethane	13.2		"	10.0		132	44-144		7.06	30	
Ethyl Benzene	9.03		"	10.0		90.3	80-131		5.39	30	
Hexachlorobutadiene	8.63		"	10.0		86.3	67-146		5.96	30	
Isopropylbenzene	8.63		"	10.0		86.3	76-140		11.9	30	
Methyl tert-butyl ether (MTBE)	9.27		"	10.0		92.7	76-135		0.649	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 BE00227 - EPA 5030B											
LCS Dup (BE00227-BSD1)								Prepared & Analyzed: 05/27/2020			
Methylene chloride	8.90		ug/L	10.0		89.0	55-137		2.99	30	
Naphthalene	8.99		"	10.0		89.9	70-147		0.894	30	
n-Butylbenzene	9.02		"	10.0		90.2	79-132		8.59	30	
n-Propylbenzene	8.79		"	10.0		87.9	78-133		10.5	30	
o-Xylene	9.02		"	10.0		90.2	78-130		2.30	30	
p- & m- Xylenes	18.0		"	20.0		89.8	77-133		5.84	30	
p-Diethylbenzene	9.82		"	10.0		98.2	84-134		8.11	30	
p-Ethyltoluene	9.23		"	10.0		92.3	88-129		9.59	30	
p-Isopropyltoluene	9.08		"	10.0		90.8	81-136		9.84	30	
sec-Butylbenzene	9.37		"	10.0		93.7	79-137		10.3	30	
Styrene	9.31		"	10.0		93.1	67-132		1.70	30	
tert-Butylbenzene	7.49		"	10.0		74.9	77-138	Low Bias	10.9	30	
Tetrachloroethylene	8.65		"	10.0		86.5	82-131		6.81	30	
Toluene	8.90		"	10.0		89.0	80-127		8.09	30	
trans-1,2-Dichloroethylene	9.60		"	10.0		96.0	80-132		7.13	30	
trans-1,3-Dichloropropylene	9.25		"	10.0		92.5	78-131		1.61	30	
Trichloroethylene	8.81		"	10.0		88.1	82-128		9.92	30	
Trichlorofluoromethane	10.9		"	10.0		109	67-139		6.76	30	
Vinyl Chloride	9.04		"	10.0		90.4	58-145		2.40	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.79*		*"*	*10.0*		*97.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.69*		*"*	*10.0*		*96.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Batch BE00715 - EPA 5030B											
Blank (BE00715-BLK1)								Prepared & Analyzed: 05/28/2020			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00715 - EPA 5030B											
Blank (BE00715-BLK1)											
2-Hexanone	ND	0.50	ug/L								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.58*		"	*10.0*		*95.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.60*		"	*10.0*		*96.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		"	*10.0*		*103*	*79-122*				

Prepared & Analyzed: 05/28/2020

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 BE00715 - EPA 5030B											
LCS (BE00715-BS1)								Prepared & Analyzed: 05/28/2020			
1,1,1,2-Tetrachloroethane	9.34		ug/L	10.0		93.4	82-126				
1,1,1-Trichloroethane	10.0		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	8.90		"	10.0		89.0	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	54-165				
1,1,2-Trichloroethane	8.81		"	10.0		88.1	82-123				
1,1-Dichloroethane	9.84		"	10.0		98.4	82-129				
1,1-Dichloroethylene	10.2		"	10.0		102	68-138				
1,1-Dichloropropylene	9.93		"	10.0		99.3	83-133				
1,2,3-Trichlorobenzene	8.02		"	10.0		80.2	76-136				
1,2,3-Trichloropropane	9.21		"	10.0		92.1	77-128				
1,2,4,5-Tetramethylbenzene	9.02		"	10.0		90.2	85-140				
1,2,4-Trichlorobenzene	8.77		"	10.0		87.7	76-137				
1,2,4-Trimethylbenzene	9.81		"	10.0		98.1	82-132				
1,2-Dibromo-3-chloropropane	8.75		"	10.0		87.5	45-147				
1,2-Dibromoethane	8.87		"	10.0		88.7	83-124				
1,2-Dichlorobenzene	9.50		"	10.0		95.0	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	8.93		"	10.0		89.3	78-126				
1,3,5-Trimethylbenzene	9.85		"	10.0		98.5	80-131				
1,3-Dichlorobenzene	9.58		"	10.0		95.8	86-122				
1,3-Dichloropropane	8.91		"	10.0		89.1	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.3		"	10.0		103	56-150				
2-Butanone	8.88		"	10.0		88.8	49-152				
2-Chlorotoluene	9.44		"	10.0		94.4	79-130				
2-Hexanone	8.22		"	10.0		82.2	51-146				
4-Chlorotoluene	9.62		"	10.0		96.2	79-128				
4-Methyl-2-pentanone	8.10		"	10.0		81.0	57-145				
Acetone	7.88		"	10.0		78.8	14-150				
Benzene	10.1		"	10.0		101	85-126				
Bromobenzene	9.46		"	10.0		94.6	78-129				
Bromochloromethane	9.40		"	10.0		94.0	77-128				
Bromodichloromethane	9.14		"	10.0		91.4	79-128				
Bromoform	8.63		"	10.0		86.3	78-133				
Bromomethane	11.3		"	10.0		113	43-168				
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.79		"	10.0		97.9	77-141				
Chlorobenzene	9.45		"	10.0		94.5	88-120				
Chloroethane	9.89		"	10.0		98.9	65-136				
Chloroform	9.75		"	10.0		97.5	82-128				
Chloromethane	7.25		"	10.0		72.5	43-155				
cis-1,2-Dichloroethylene	9.81		"	10.0		98.1	83-129				
cis-1,3-Dichloropropylene	9.03		"	10.0		90.3	80-131				
Dibromochloromethane	8.91		"	10.0		89.1	80-130				
Dibromomethane	8.70		"	10.0		87.0	72-134				
Dichlorodifluoromethane	11.1		"	10.0		111	44-144				
Ethyl Benzene	9.58		"	10.0		95.8	80-131				
Hexachlorobutadiene	8.86		"	10.0		88.6	67-146				
Isopropylbenzene	9.45		"	10.0		94.5	76-140				
Methyl tert-butyl ether (MTBE)	8.99		"	10.0		89.9	76-135				

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 BE00715 - EPA 5030B											
LCS (BE00715-BS1)							Prepared & Analyzed: 05/28/2020				
Methylene chloride	9.29		ug/L	10.0		92.9	55-137				
Naphthalene	8.05		"	10.0		80.5	70-147				
n-Butylbenzene	9.83		"	10.0		98.3	79-132				
n-Propylbenzene	9.58		"	10.0		95.8	78-133				
o-Xylene	9.59		"	10.0		95.9	78-130				
p- & m- Xylenes	19.1		"	20.0		95.4	77-133				
p-Diethylbenzene	10.6		"	10.0		106	84-134				
p-Ethyltoluene	10.0		"	10.0		100	88-129				
p-Isopropyltoluene	9.87		"	10.0		98.7	81-136				
sec-Butylbenzene	10.3		"	10.0		103	79-137				
Styrene	9.85		"	10.0		98.5	67-132				
tert-Butylbenzene	8.21		"	10.0		82.1	77-138				
Tetrachloroethylene	9.31		"	10.0		93.1	82-131				
Toluene	9.42		"	10.0		94.2	80-127				
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132				
trans-1,3-Dichloropropylene	8.85		"	10.0		88.5	78-131				
Trichloroethylene	9.38		"	10.0		93.8	82-128				
Trichlorofluoromethane	11.3		"	10.0		113	67-139				
Vinyl Chloride	8.90		"	10.0		89.0	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.33*		*"*	*10.0*		*93.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.53*		*"*	*10.0*		*95.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS Dup (BE00715-BSD1)							Prepared & Analyzed: 05/28/2020				
1,1,1,2-Tetrachloroethane	9.30		ug/L	10.0		93.0	82-126		0.429	30	
1,1,1-Trichloroethane	9.96		"	10.0		99.6	78-136		0.601	30	
1,1,2,2-Tetrachloroethane	9.04		"	10.0		90.4	76-129		1.56	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	54-165		0.0916	30	
1,1,2-Trichloroethane	8.84		"	10.0		88.4	82-123		0.340	30	
1,1-Dichloroethane	9.80		"	10.0		98.0	82-129		0.407	30	
1,1-Dichloroethylene	9.96		"	10.0		99.6	68-138		2.18	30	
1,1-Dichloropropylene	9.79		"	10.0		97.9	83-133		1.42	30	
1,2,3-Trichlorobenzene	8.14		"	10.0		81.4	76-136		1.49	30	
1,2,3-Trichloropropane	9.38		"	10.0		93.8	77-128		1.83	30	
1,2,4,5-Tetramethylbenzene	9.18		"	10.0		91.8	85-140		1.76	30	
1,2,4-Trichlorobenzene	8.91		"	10.0		89.1	76-137		1.58	30	
1,2,4-Trimethylbenzene	9.66		"	10.0		96.6	82-132		1.54	30	
1,2-Dibromo-3-chloropropane	8.39		"	10.0		83.9	45-147		4.20	30	
1,2-Dibromoethane	8.98		"	10.0		89.8	83-124		1.23	30	
1,2-Dichlorobenzene	9.50		"	10.0		95.0	79-123		0.00	30	
1,2-Dichloroethane	9.48		"	10.0		94.8	73-132		0.631	30	
1,2-Dichloropropane	8.97		"	10.0		89.7	78-126		0.447	30	
1,3,5-Trimethylbenzene	9.81		"	10.0		98.1	80-131		0.407	30	
1,3-Dichlorobenzene	9.50		"	10.0		95.0	86-122		0.839	30	
1,3-Dichloropropane	8.84		"	10.0		88.4	81-125		0.789	30	
1,4-Dichlorobenzene	9.52		"	10.0		95.2	85-124		0.950	30	
2,2-Dichloropropane	9.86		"	10.0		98.6	56-150		4.66	30	
2-Butanone	9.67		"	10.0		96.7	49-152		8.52	30	
2-Chlorotoluene	9.58		"	10.0		95.8	79-130		1.47	30	
2-Hexanone	8.33		"	10.0		83.3	51-146		1.33	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 BE00715 - EPA 5030B											
LCS Dup (BE00715-BSD1)							Prepared & Analyzed: 05/28/2020				
4-Chlorotoluene	9.61		ug/L	10.0		96.1	79-128		0.104	30	
4-Methyl-2-pentanone	8.24		"	10.0		82.4	57-145		1.71	30	
Acetone	8.10		"	10.0		81.0	14-150		2.75	30	
Benzene	9.90		"	10.0		99.0	85-126		1.80	30	
Bromobenzene	9.44		"	10.0		94.4	78-129		0.212	30	
Bromochloromethane	9.42		"	10.0		94.2	77-128		0.213	30	
Bromodichloromethane	9.17		"	10.0		91.7	79-128		0.328	30	
Bromoform	8.74		"	10.0		87.4	78-133		1.27	30	
Bromomethane	12.1		"	10.0		121	43-168		7.19	30	
Carbon disulfide	10.1		"	10.0		101	68-146		0.296	30	
Carbon tetrachloride	9.71		"	10.0		97.1	77-141		0.821	30	
Chlorobenzene	9.50		"	10.0		95.0	88-120		0.528	30	
Chloroethane	10.0		"	10.0		100	65-136		1.41	30	
Chloroform	9.88		"	10.0		98.8	82-128		1.32	30	
Chloromethane	7.95		"	10.0		79.5	43-155		9.21	30	
cis-1,2-Dichloroethylene	9.81		"	10.0		98.1	83-129		0.00	30	
cis-1,3-Dichloropropylene	9.05		"	10.0		90.5	80-131		0.221	30	
Dibromochloromethane	8.96		"	10.0		89.6	80-130		0.560	30	
Dibromomethane	8.70		"	10.0		87.0	72-134		0.00	30	
Dichlorodifluoromethane	11.0		"	10.0		110	44-144		0.0905	30	
Ethyl Benzene	9.62		"	10.0		96.2	80-131		0.417	30	
Hexachlorobutadiene	9.26		"	10.0		92.6	67-146		4.42	30	
Isopropylbenzene	9.33		"	10.0		93.3	76-140		1.28	30	
Methyl tert-butyl ether (MTBE)	8.96		"	10.0		89.6	76-135		0.334	30	
Methylene chloride	9.17		"	10.0		91.7	55-137		1.30	30	
Naphthalene	8.09		"	10.0		80.9	70-147		0.496	30	
n-Butylbenzene	9.84		"	10.0		98.4	79-132		0.102	30	
n-Propylbenzene	9.53		"	10.0		95.3	78-133		0.523	30	
o-Xylene	9.58		"	10.0		95.8	78-130		0.104	30	
p- & m- Xylenes	19.1		"	20.0		95.4	77-133		0.0524	30	
p-Diethylbenzene	10.7		"	10.0		107	84-134		0.844	30	
p-Ethyltoluene	9.98		"	10.0		99.8	88-129		0.500	30	
p-Isopropyltoluene	9.89		"	10.0		98.9	81-136		0.202	30	
sec-Butylbenzene	10.3		"	10.0		103	79-137		0.00	30	
Styrene	9.95		"	10.0		99.5	67-132		1.01	30	
tert-Butylbenzene	8.28		"	10.0		82.8	77-138		0.849	30	
Tetrachloroethylene	9.38		"	10.0		93.8	82-131		0.749	30	
Toluene	9.41		"	10.0		94.1	80-127		0.106	30	
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132		0.876	30	
trans-1,3-Dichloropropylene	8.75		"	10.0		87.5	78-131		1.14	30	
Trichloroethylene	9.43		"	10.0		94.3	82-128		0.532	30	
Trichlorofluoromethane	11.5		"	10.0		115	67-139		1.76	30	
Vinyl Chloride	8.86		"	10.0		88.6	58-145		0.450	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.22*		*"*	*10.0*		*92.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.72*		*"*	*10.0*		*97.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*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 BE00716 - EPA 5030B											
Blank (BE00716-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Prepared & Analyzed: 05/29/2020

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 BE00716 - EPA 5030B											
Blank (BE00716-BLK1)								Prepared & Analyzed: 05/29/2020			
Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.82*		*"*	*10.0*		*98.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.41*		*"*	*10.0*		*94.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS (BE00716-BS1)								Prepared & Analyzed: 05/29/2020			
1,1,1,2-Tetrachloroethane	8.47		ug/L	10.0		84.7	82-126				
1,1,1-Trichloroethane	8.79		"	10.0		87.9	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.21		"	10.0		92.1	54-165				
1,1,2-Trichloroethane	8.23		"	10.0		82.3	82-123				
1,1-Dichloroethane	8.77		"	10.0		87.7	82-129				
1,1-Dichloroethylene	8.56		"	10.0		85.6	68-138				
1,1-Dichloropropylene	8.60		"	10.0		86.0	83-133				
1,2,3-Trichlorobenzene	7.70		"	10.0		77.0	76-136				
1,2,3-Trichloropropane	9.42		"	10.0		94.2	77-128				
1,2,4,5-Tetramethylbenzene	8.22		"	10.0		82.2	85-140	Low Bias			
1,2,4-Trichlorobenzene	8.29		"	10.0		82.9	76-137				
1,2,4-Trimethylbenzene	8.95		"	10.0		89.5	82-132				
1,2-Dibromo-3-chloropropane	8.40		"	10.0		84.0	45-147				
1,2-Dibromoethane	8.52		"	10.0		85.2	83-124				
1,2-Dichlorobenzene	9.21		"	10.0		92.1	79-123				
1,2-Dichloroethane	9.03		"	10.0		90.3	73-132				
1,2-Dichloropropane	8.34		"	10.0		83.4	78-126				
1,3,5-Trimethylbenzene	9.04		"	10.0		90.4	80-131				
1,3-Dichlorobenzene	8.81		"	10.0		88.1	86-122				
1,3-Dichloropropane	8.40		"	10.0		84.0	81-125				
1,4-Dichlorobenzene	9.05		"	10.0		90.5	85-124				
2,2-Dichloropropane	10.3		"	10.0		103	56-150				
2-Butanone	6.78		"	10.0		67.8	49-152				
2-Chlorotoluene	8.95		"	10.0		89.5	79-130				

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 BE00716 - EPA 5030B											
LCS (BE00716-BS1)								Prepared & Analyzed: 05/29/2020			
2-Hexanone	7.81		ug/L	10.0		78.1	51-146				
4-Chlorotoluene	8.85		"	10.0		88.5	79-128				
4-Methyl-2-pentanone	8.14		"	10.0		81.4	57-145				
Acetone	7.10		"	10.0		71.0	14-150				
Benzene	9.00		"	10.0		90.0	85-126				
Bromobenzene	9.12		"	10.0		91.2	78-129				
Bromochloromethane	9.06		"	10.0		90.6	77-128				
Bromodichloromethane	8.58		"	10.0		85.8	79-128				
Bromoform	8.66		"	10.0		86.6	78-133				
Bromomethane	9.42		"	10.0		94.2	43-168				
Carbon disulfide	8.82		"	10.0		88.2	68-146				
Carbon tetrachloride	8.58		"	10.0		85.8	77-141				
Chlorobenzene	8.62		"	10.0		86.2	88-120	Low Bias			
Chloroethane	8.27		"	10.0		82.7	65-136				
Chloroform	9.09		"	10.0		90.9	82-128				
Chloromethane	5.73		"	10.0		57.3	43-155				
cis-1,2-Dichloroethylene	9.06		"	10.0		90.6	83-129				
cis-1,3-Dichloropropylene	8.92		"	10.0		89.2	80-131				
Dibromochloromethane	8.51		"	10.0		85.1	80-130				
Dibromomethane	8.57		"	10.0		85.7	72-134				
Dichlorodifluoromethane	8.32		"	10.0		83.2	44-144				
Ethyl Benzene	8.39		"	10.0		83.9	80-131				
Hexachlorobutadiene	7.73		"	10.0		77.3	67-146				
Isopropylbenzene	8.55		"	10.0		85.5	76-140				
Methyl tert-butyl ether (MTBE)	8.53		"	10.0		85.3	76-135				
Methylene chloride	8.46		"	10.0		84.6	55-137				
Naphthalene	8.01		"	10.0		80.1	70-147				
n-Butylbenzene	8.85		"	10.0		88.5	79-132				
n-Propylbenzene	8.70		"	10.0		87.0	78-133				
o-Xylene	8.49		"	10.0		84.9	78-130				
p- & m- Xylenes	16.8		"	20.0		84.0	77-133				
p-Diethylbenzene	9.69		"	10.0		96.9	84-134				
p-Ethyltoluene	9.31		"	10.0		93.1	88-129				
p-Isopropyltoluene	8.84		"	10.0		88.4	81-136				
sec-Butylbenzene	9.03		"	10.0		90.3	79-137				
Styrene	8.93		"	10.0		89.3	67-132				
tert-Butylbenzene	7.44		"	10.0		74.4	77-138	Low Bias			
Tetrachloroethylene	8.20		"	10.0		82.0	82-131				
Toluene	8.44		"	10.0		84.4	80-127				
trans-1,2-Dichloroethylene	9.10		"	10.0		91.0	80-132				
trans-1,3-Dichloropropylene	8.60		"	10.0		86.0	78-131				
Trichloroethylene	8.32		"	10.0		83.2	82-128				
Trichlorofluoromethane	9.49		"	10.0		94.9	67-139				
Vinyl Chloride	6.93		"	10.0		69.3	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.54*		*"*	*10.0*		*95.4*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.58*		*"*	*10.0*		*95.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*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 BE00716 - EPA 5030B											
LCS Dup (BE00716-BSD1)								Prepared & Analyzed: 05/29/2020			
1,1,1,2-Tetrachloroethane	8.82		ug/L	10.0		88.2	82-126		4.05	30	
1,1,1-Trichloroethane	8.97		"	10.0		89.7	78-136		2.03	30	
1,1,2,2-Tetrachloroethane	9.14		"	10.0		91.4	76-129		0.546	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.32		"	10.0		93.2	54-165		1.19	30	
1,1,2-Trichloroethane	8.55		"	10.0		85.5	82-123		3.81	30	
1,1-Dichloroethane	8.92		"	10.0		89.2	82-129		1.70	30	
1,1-Dichloroethylene	8.77		"	10.0		87.7	68-138		2.42	30	
1,1-Dichloropropylene	8.62		"	10.0		86.2	83-133		0.232	30	
1,2,3-Trichlorobenzene	7.90		"	10.0		79.0	76-136		2.56	30	
1,2,3-Trichloropropane	9.34		"	10.0		93.4	77-128		0.853	30	
1,2,4,5-Tetramethylbenzene	8.12		"	10.0		81.2	85-140	Low Bias	1.22	30	
1,2,4-Trichlorobenzene	8.28		"	10.0		82.8	76-137		0.121	30	
1,2,4-Trimethylbenzene	8.69		"	10.0		86.9	82-132		2.95	30	
1,2-Dibromo-3-chloropropane	8.65		"	10.0		86.5	45-147		2.93	30	
1,2-Dibromoethane	8.90		"	10.0		89.0	83-124		4.36	30	
1,2-Dichlorobenzene	8.90		"	10.0		89.0	79-123		3.42	30	
1,2-Dichloroethane	9.61		"	10.0		96.1	73-132		6.22	30	
1,2-Dichloropropane	8.61		"	10.0		86.1	78-126		3.19	30	
1,3,5-Trimethylbenzene	8.65		"	10.0		86.5	80-131		4.41	30	
1,3-Dichlorobenzene	8.76		"	10.0		87.6	86-122		0.569	30	
1,3-Dichloropropane	8.78		"	10.0		87.8	81-125		4.42	30	
1,4-Dichlorobenzene	8.94		"	10.0		89.4	85-124		1.22	30	
2,2-Dichloropropane	10.1		"	10.0		101	56-150		1.86	30	
2-Butanone	10.3		"	10.0		103	49-152		41.3	30	Non-dir.
2-Chlorotoluene	8.45		"	10.0		84.5	79-130		5.75	30	
2-Hexanone	8.53		"	10.0		85.3	51-146		8.81	30	
4-Chlorotoluene	8.56		"	10.0		85.6	79-128		3.33	30	
4-Methyl-2-pentanone	8.69		"	10.0		86.9	57-145		6.54	30	
Acetone	7.49		"	10.0		74.9	14-150		5.35	30	
Benzene	9.11		"	10.0		91.1	85-126		1.21	30	
Bromobenzene	8.84		"	10.0		88.4	78-129		3.12	30	
Bromochloromethane	9.28		"	10.0		92.8	77-128		2.40	30	
Bromodichloromethane	8.85		"	10.0		88.5	79-128		3.10	30	
Bromoform	8.85		"	10.0		88.5	78-133		2.17	30	
Bromomethane	9.73		"	10.0		97.3	43-168		3.24	30	
Carbon disulfide	8.94		"	10.0		89.4	68-146		1.35	30	
Carbon tetrachloride	8.57		"	10.0		85.7	77-141		0.117	30	
Chlorobenzene	8.63		"	10.0		86.3	88-120	Low Bias	0.116	30	
Chloroethane	8.71		"	10.0		87.1	65-136		5.18	30	
Chloroform	9.14		"	10.0		91.4	82-128		0.549	30	
Chloromethane	6.02		"	10.0		60.2	43-155		4.94	30	
cis-1,2-Dichloroethylene	9.19		"	10.0		91.9	83-129		1.42	30	
cis-1,3-Dichloropropylene	8.87		"	10.0		88.7	80-131		0.562	30	
Dibromochloromethane	8.89		"	10.0		88.9	80-130		4.37	30	
Dibromomethane	8.95		"	10.0		89.5	72-134		4.34	30	
Dichlorodifluoromethane	8.64		"	10.0		86.4	44-144		3.77	30	
Ethyl Benzene	8.46		"	10.0		84.6	80-131		0.831	30	
Hexachlorobutadiene	7.94		"	10.0		79.4	67-146		2.68	30	
Isopropylbenzene	8.15		"	10.0		81.5	76-140		4.79	30	
Methyl tert-butyl ether (MTBE)	9.05		"	10.0		90.5	76-135		5.92	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 BE00716 - EPA 5030B											
LCS Dup (BE00716-BSD1)								Prepared & Analyzed: 05/29/2020			
Methylene chloride	8.85		ug/L	10.0		88.5	55-137		4.51	30	
Naphthalene	8.04		"	10.0		80.4	70-147		0.374	30	
n-Butylbenzene	8.45		"	10.0		84.5	79-132		4.62	30	
n-Propylbenzene	8.26		"	10.0		82.6	78-133		5.19	30	
o-Xylene	8.51		"	10.0		85.1	78-130		0.235	30	
p- & m- Xylenes	16.9		"	20.0		84.3	77-133		0.416	30	
p-Diethylbenzene	9.30		"	10.0		93.0	84-134		4.11	30	
p-Ethyltoluene	9.16		"	10.0		91.6	88-129		1.62	30	
p-Isopropyltoluene	8.66		"	10.0		86.6	81-136		2.06	30	
sec-Butylbenzene	8.85		"	10.0		88.5	79-137		2.01	30	
Styrene	9.07		"	10.0		90.7	67-132		1.56	30	
tert-Butylbenzene	7.16		"	10.0		71.6	77-138	Low Bias	3.84	30	
Tetrachloroethylene	7.94		"	10.0		79.4	82-131	Low Bias	3.22	30	
Toluene	8.45		"	10.0		84.5	80-127		0.118	30	
trans-1,2-Dichloroethylene	9.21		"	10.0		92.1	80-132		1.20	30	
trans-1,3-Dichloropropylene	8.84		"	10.0		88.4	78-131		2.75	30	
Trichloroethylene	8.38		"	10.0		83.8	82-128		0.719	30	
Trichlorofluoromethane	9.53		"	10.0		95.3	67-139		0.421	30	
Vinyl Chloride	7.50		"	10.0		75.0	58-145		7.90	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.53*		*"*	*10.0*		*95.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Gas Chromatography/Flame Ionization Detector - 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 BE01051 - Preparation for GC Analysis											
Blank (BE01051-BLK1)											Prepared & Analyzed: 05/26/2020
Methane	ND	10	ug/L								
Ethane	ND	10	"								
Ethylene (Ethene)	ND	10	"								

Metals by ICP/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 BE01067 - EPA 200.8											
Blank (BE01067-BLK1)									Prepared: 05/27/2020 Analyzed: 05/28/2020		
Iron - Dissolved	ND	10.0	ug/L								
LCS (BE01067-BS1)									Prepared: 05/27/2020 Analyzed: 05/28/2020		
Iron - Dissolved	2750		ug/L	2500		110	80-120				

Anions by Ion Chromatography - 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 BE01000 - EPA 300											
Blank (BE01000-BLK1)											Prepared & Analyzed: 05/21/2020
Nitrate as N	ND	0.0500	mg/L								
Nitrite as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BE01000-BS1)											Prepared & Analyzed: 05/21/2020
Nitrate as N	10.0	0.0500	mg/L	10.0		100	90-110				
Nitrite as N	9.87	0.0500	"	10.0		98.7	90-110				
Sulfate	10.3	1.00	"	10.0		103	85-115				

Wet Chemistry 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 BE00880 - Analysis Preparation											
Blank (BE00880-BLK1)									Prepared: 05/21/2020 Analyzed: 05/22/2020		
Total Organic Carbon (TOC)	ND	1.00	mg/L								
LCS (BE00880-BS1)									Prepared: 05/21/2020 Analyzed: 05/22/2020		
Total Organic Carbon (TOC)	98.6	2.00	mg/L	94.0		105	79.5-125.1				
Duplicate (BE00880-DUP1)	*Source sample: 20E0617-04 (FB01-200519)								Prepared: 05/21/2020 Analyzed: 05/22/2020		
Total Organic Carbon (TOC)	ND	1.00	mg/L		ND					20	
Matrix Spike (BE00880-MS1)	*Source sample: 20E0617-04 (FB01-200519)								Prepared: 05/21/2020 Analyzed: 05/22/2020		
Total Organic Carbon (TOC)	21.7	1.00	mg/L	20.0	ND	108	70-130				
Batch BE01009 - Analysis Preparation											
Blank (BE01009-BLK1)									Prepared: 05/26/2020 Analyzed: 05/27/2020		
Total Organic Carbon (TOC)	ND	1.00	mg/L								
LCS (BE01009-BS1)									Prepared: 05/26/2020 Analyzed: 05/27/2020		
Total Organic Carbon (TOC)	98.4	1.00	mg/L	94.0		105	79.5-125.1				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20E0617-01	MW-45A-200519	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0617-02	MW-98-04-200519	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0617-03	MW-98-05AR-200519	40mL 01_Clear Vial Cool to 4° C
20E0617-04	FB01-200519	40mL 01_Clear Vial Cool to 4° C
20E0617-05	DUP01-200519	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0617-06	TB01-200519	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0617-07	FRW-2-200520	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0617-08	FRW-3-200520	40mL 01_Clear Vial Cool to 4° C
20E0617-09	FRW-1-200520	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
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. 20E0617

YOUR Information	Report To:	Invoice To:
Company: Ramboll	Company: Ramboll	Company: Ramboll
Address: 101 Carnegie Ctr, 200 Princeton NJ	Address: 234 W Florida St, 5th Flr Milwaukee WI 53204	Address: 234 W Florida St. 5th Flr Milwaukee, WI 53204
Phone: (201) 575-1715	Phone: 262-901-0127	Phone: 262-901-0127
Contact: Matthew Sweet	Contact: Mark Mejac	Contact: Mark Mejac
E-mail: msweet@ramboll.com	E-mail: mmejac@ramboll.com	E-mail: mmejac@ramboll.com

YOUR Project Number: 16900/16505

YOUR Project Name: Kraft Sag Harbor/ Frmr Rowe Ind.

YOUR PO#: 169016505

Turn-Around Time

- 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.

Samples Collected by: (print your name above and sign below)
Matthew Sweet

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
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- X Other: Equis 4 File

YORK Reg. Comp.

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

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW-45A-200519	GW	5/19/20 11:15	VOC	
MW-98-04-200519	GW	5/19/20 12:35	VOC	
MW-98-05AR-200519	GW	5/19/20 16:25	VOC, TOC, Ethene, Ethane, Meth, Nitrite, Sulfate, Nitrate, Diss Fe	
FB01-200519	GW	5/19/20 15:45	VOC, TOC, Ethen, Ethane, Methane, NO_2^-, SO_4^{2-}, Diss Fe	
DUP01-200519	GW	5/19/20 16:25	VOC, TOC, Ethene, Ethan, Methane, NO_2^-, SO_4^{2-}, Diss Fe	
TB01-200519	GW	5/19/20	VOC	
FRW-2-200520	GW	5/20/20 0850	VOC, TOC, Ethene Ethan Methane, NO_2^- SO_4^- Diss Fe	
FRW-3-200520	GW	5/20/20 1010	VOC, TOC, Ethene, Ethan Methane, NO_2^- SO_4^- Diss Fe	
FRW-1-200520	GW	5/20/20 11:25	VOC, TOC, Ethene, Ethan, Meth, NO_2^- SO_4^- Diss Fe	

Comments: Send EQUIS 4 File to EDD Princeton@ramboll.com
Lab Filter for Diss. Fe

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

Special Instruction
Field Filtered
Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Ramboll	5/20/20 1100PM	KBakyork	5/20/20 1100PM	KBakyork	5/20/20 1708
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
				KBlocker 5/20/20 1708	2.3 Degrees C

Technical Report

prepared for:

Ramboll US Corp.
100 Pearl Street, East Tower, Third Floor
Hartford CT, 06102
Attention: Mark Mejac

Report Date: 07/09/2020
Client Project ID: 1690016505 Kraft Sag Harbor/Rowe Ind.
York Project (SDG) No.: 20E0644

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: 07/09/2020
Client Project ID: 1690016505 Kraft Sag Harbor/Rowe Ind.
York Project (SDG) No.: 20E0644

Ramboll US Corp.
100 Pearl Street, East Tower, Third Floor
Hartford CT, 06102
Attention: Mark Mejac

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 May 21, 2020 and listed below. The project was identified as your project: **1690016505 Kraft Sag Harbor/Rowe Ind.**.

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.

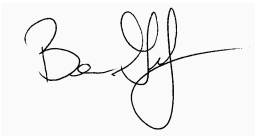
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
20E0644-01	FRW-4-200520	Water	05/20/2020	05/21/2020
20E0644-02	MW98-01A-200520	Water	05/20/2020	05/21/2020
20E0644-03	TB01-200520	Water	05/20/2020	05/21/2020

General Notes for York Project (SDG) No.: 20E0644

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: 07/09/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: FRW-4-200520 **York Sample ID:** 20E0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 1:45 pm	05/21/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: FRW-4-200520 **York Sample ID:** 20E0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 1:45 pm	05/21/2020

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
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	**2-Butanone**	**31**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	**Acetone**	**14**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	**Carbon disulfide**	**0.69**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**0.51**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: FRW-4-200520 **York Sample ID:** 20E0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 1:45 pm	05/21/2020

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
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	**Tetrachloroethylene**	**1.7**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	**Trichloroethylene**	**0.27**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:02 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: FRW-4-200520 **York Sample ID:** 20E0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 1:45 pm	05/21/2020

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
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	05/29/2020 06:52	06/01/2020 16:02	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	05/29/2020 06:52	06/01/2020 16:02	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.7 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	* Methane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:24	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:24	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:24	RB

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**223000**		ug/L	1000	100	EPA 200.8 Certifications: CTDOH	05/27/2020 07:36	05/29/2020 13:14	BML

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/21/2020 16:47	05/21/2020 20:58	MAO

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	05/21/2020 16:47	05/21/2020 20:58	MAO

Sample Information

Client Sample ID: FRW-4-200520 **York Sample ID:** 20E0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 1:45 pm	05/21/2020

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**4.89**		mg/L	1.00	1	EPA 300.0	05/21/2020 16:47	05/21/2020 20:58	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**268**		mg/L	10.0	10	SM 5310C	05/26/2020 08:32	05/27/2020 15:18	STN
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: MW98-01A-200520 **York Sample ID:** 20E0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 3:05 pm	05/21/2020

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	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	05/29/2020 06:52	06/01/2020 16:30	TMP
								Certifications:			

Sample Information

Client Sample ID: MW98-01A-200520 **York Sample ID:** 20E0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 3:05 pm	05/21/2020

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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
78-93-3	**2-Butanone**	**93**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
67-64-1	**Acetone**	**3.7**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 16:30	TMP

Sample Information

Client Sample ID: MW98-01A-200520 **York Sample ID:** 20E0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 3:05 pm	05/21/2020

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
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	**Carbon disulfide**	**0.30**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP

Sample Information

Client Sample ID: MW98-01A-200520 **York Sample ID:** 20E0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 3:05 pm	05/21/2020

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
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	**Tetrachloroethylene**	**2.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 16:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.6 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Methane, Ethane & Ethylene

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	* **Methane**	**47**		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:30	RB
74-84-0	* Ethane	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:30	RB
74-85-1	* Ethylene (Ethene)	ND		ug/L	10	1	GC/Headspace Certifications:	05/26/2020 15:29	05/26/2020 16:30	RB

Sample Information

Client Sample ID: MW98-01A-200520 **York Sample ID:** 20E0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 3:05 pm	05/21/2020

Iron, Dissolved by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**61000**		ug/L	200	20	EPA 200.8	05/27/2020 07:36	05/28/2020 16:42	BML
							Certifications: CTDOH			

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**1.36**		mg/L	0.0500	1	EPA 300.0	05/21/2020 16:47	05/21/2020 21:25	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	05/21/2020 16:47	05/21/2020 21:25	MAO
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**6.38**		mg/L	1.00	1	EPA 300.0	05/21/2020 16:47	05/21/2020 21:25	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Organic Carbon

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	**84.3**		mg/L	10.0	10	SM 5310C	05/26/2020 08:32	05/27/2020 15:18	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: TB01-200520 **York Sample ID:** 20E0644-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 12:00 am	05/21/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TB01-200520** **York Sample ID:** **20E0644-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 12:00 am	05/21/2020

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
78-93-3	**2-Butanone**	**0.51**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP

Sample Information

Client Sample ID: TB01-200520 **York Sample ID:** 20E0644-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 12:00 am	05/21/2020

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	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
67-64-1	**Acetone**	**7.7**		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP

Sample Information

Client Sample ID: TB01-200520 **York Sample ID:** 20E0644-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 12:00 am	05/21/2020

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
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	05/29/2020 06:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/01/2020 15:35	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/01/2020 15:35	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52	06/01/2020 15:35	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/01/2020 15:35	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	05/29/2020 06:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/01/2020 15:35	TMP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TB01-200520 **York Sample ID:** 20E0644-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0644	1690016505 Kraft Sag Harbor/Rowe Ind.	Water	May 20, 2020 12:00 am	05/21/2020

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
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*86.6 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*			*79-122*						

Analytical Batch Summary

Batch ID: BE00996 **Preparation Method:** EPA 300 **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
20E0644-01	FRW-4-200520	05/21/20
20E0644-02	MW98-01A-200520	05/21/20
BE00996-BLK1	Blank	05/21/20
BE00996-BS1	LCS	05/21/20

Batch ID: BE01009 **Preparation Method:** Analysis Preparation **Prepared By:** STN

YORK Sample ID	Client Sample ID	Preparation Date
20E0644-01	FRW-4-200520	05/26/20
20E0644-02	MW98-01A-200520	05/26/20
BE01009-BLK1	Blank	05/26/20
BE01009-BS1	LCS	05/26/20

Batch ID: BE01051 **Preparation Method:** Preparation for GC Analysis **Prepared By:** RQB

YORK Sample ID	Client Sample ID	Preparation Date
20E0644-01	FRW-4-200520	05/26/20
20E0644-02	MW98-01A-200520	05/26/20
BE01051-BLK1	Blank	05/26/20
BE01051-DUP1	Duplicate	05/26/20

Batch ID: BE01067 **Preparation Method:** EPA 200.8 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20E0644-01	FRW-4-200520	05/27/20
20E0644-01RE1	FRW-4-200520	05/27/20
20E0644-02	MW98-01A-200520	05/27/20
20E0644-02RE1	MW98-01A-200520	05/27/20
BE01067-BLK1	Blank	05/27/20
BE01067-BS1	LCS	05/27/20
BE01067-DUP1	Duplicate	05/27/20
BE01067-MS1	Matrix Spike	05/27/20

Batch ID: BF00061 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20E0644-01	FRW-4-200520	05/29/20
20E0644-02	MW98-01A-200520	05/29/20
20E0644-03	TB01-200520	05/29/20
BF00061-BLK1	Blank	06/01/20
BF00061-BS1	LCS	06/01/20
BF00061-BSD1	LCS Dup	06/01/20


YORK
ANALYTICAL LABORATORIES INC

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 BF00061 - EPA 5030B											
Blank (BF00061-BLK1)											Prepared & Analyzed: 06/01/2020
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4,5-Tetramethylbenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								

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 BF00061 - EPA 5030B											
Blank (BF00061-BLK1)											Prepared & Analyzed: 06/01/2020
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Diethylbenzene	ND	0.50	"								
p-Ethyltoluene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.85*		*"*	*10.0*		*88.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.96*		*"*	*10.0*		*99.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*79-122*				
LCS (BF00061-BS1)											Prepared & Analyzed: 06/01/2020
1,1,1,2-Tetrachloroethane	8.85		ug/L	10.0		88.5	82-126				
1,1,1-Trichloroethane	8.63		"	10.0		86.3	78-136				
1,1,2,2-Tetrachloroethane	9.69		"	10.0		96.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.52		"	10.0		85.2	54-165				
1,1,2-Trichloroethane	8.50		"	10.0		85.0	82-123				
1,1-Dichloroethane	8.89		"	10.0		88.9	82-129				
1,1-Dichloroethylene	8.14		"	10.0		81.4	68-138				
1,1-Dichloropropylene	8.55		"	10.0		85.5	83-133				
1,2,3-Trichlorobenzene	7.79		"	10.0		77.9	76-136				
1,2,3-Trichloropropane	9.70		"	10.0		97.0	77-128				
1,2,4,5-Tetramethylbenzene	9.11		"	10.0		91.1	85-140				
1,2,4-Trichlorobenzene	8.61		"	10.0		86.1	76-137				
1,2,4-Trimethylbenzene	10.0		"	10.0		100	82-132				
1,2-Dibromo-3-chloropropane	8.27		"	10.0		82.7	45-147				
1,2-Dibromoethane	8.63		"	10.0		86.3	83-124				
1,2-Dichlorobenzene	9.50		"	10.0		95.0	79-123				
1,2-Dichloroethane	7.94		"	10.0		79.4	73-132				
1,2-Dichloropropane	8.75		"	10.0		87.5	78-126				
1,3,5-Trimethylbenzene	10.1		"	10.0		101	80-131				
1,3-Dichlorobenzene	9.55		"	10.0		95.5	86-122				
1,3-Dichloropropane	8.47		"	10.0		84.7	81-125				
1,4-Dichlorobenzene	9.66		"	10.0		96.6	85-124				
2,2-Dichloropropane	10.2		"	10.0		102	56-150				
2-Butanone	8.66		"	10.0		86.6	49-152				

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 BF00061 - EPA 5030B											
LCS (BF00061-BS1)								Prepared & Analyzed: 06/01/2020			
2-Chlorotoluene	9.89		ug/L	10.0		98.9	79-130				
2-Hexanone	7.32		"	10.0		73.2	51-146				
4-Chlorotoluene	9.76		"	10.0		97.6	79-128				
4-Methyl-2-pentanone	7.62		"	10.0		76.2	57-145				
Acetone	6.81		"	10.0		68.1	14-150				
Benzene	9.12		"	10.0		91.2	85-126				
Bromobenzene	9.73		"	10.0		97.3	78-129				
Bromochloromethane	8.15		"	10.0		81.5	77-128				
Bromodichloromethane	8.54		"	10.0		85.4	79-128				
Bromoform	8.15		"	10.0		81.5	78-133				
Bromomethane	5.95		"	10.0		59.5	43-168				
Carbon disulfide	8.38		"	10.0		83.8	68-146				
Carbon tetrachloride	8.23		"	10.0		82.3	77-141				
Chlorobenzene	8.98		"	10.0		89.8	88-120				
Chloroethane	8.21		"	10.0		82.1	65-136				
Chloroform	8.71		"	10.0		87.1	82-128				
Chloromethane	3.33		"	10.0		33.3	43-155	Low Bias			
cis-1,2-Dichloroethylene	8.79		"	10.0		87.9	83-129				
cis-1,3-Dichloropropylene	8.93		"	10.0		89.3	80-131				
Dibromochloromethane	8.58		"	10.0		85.8	80-130				
Dibromomethane	8.22		"	10.0		82.2	72-134				
Dichlorodifluoromethane	3.26		"	10.0		32.6	44-144	Low Bias			
Ethyl Benzene	9.19		"	10.0		91.9	80-131				
Hexachlorobutadiene	8.69		"	10.0		86.9	67-146				
Isopropylbenzene	9.73		"	10.0		97.3	76-140				
Methyl tert-butyl ether (MTBE)	7.81		"	10.0		78.1	76-135				
Methylene chloride	7.91		"	10.0		79.1	55-137				
Naphthalene	8.00		"	10.0		80.0	70-147				
n-Butylbenzene	9.82		"	10.0		98.2	79-132				
n-Propylbenzene	10.0		"	10.0		100	78-133				
o-Xylene	9.07		"	10.0		90.7	78-130				
p- & m- Xylenes	18.3		"	20.0		91.3	77-133				
p-Diethylbenzene	10.8		"	10.0		108	84-134				
p-Ethyltoluene	10.9		"	10.0		109	88-129				
p-Isopropyltoluene	10.1		"	10.0		101	81-136				
sec-Butylbenzene	10.4		"	10.0		104	79-137				
Styrene	9.28		"	10.0		92.8	67-132				
tert-Butylbenzene	8.47		"	10.0		84.7	77-138				
Tetrachloroethylene	8.83		"	10.0		88.3	82-131				
Toluene	9.08		"	10.0		90.8	80-127				
trans-1,2-Dichloroethylene	9.23		"	10.0		92.3	80-132				
trans-1,3-Dichloropropylene	8.58		"	10.0		85.8	78-131				
Trichloroethylene	8.92		"	10.0		89.2	82-128				
Trichlorofluoromethane	7.74		"	10.0		77.4	67-139				
Vinyl Chloride	5.56		"	10.0		55.6	58-145	Low Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.83*		*"*	*10.0*		*88.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*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 BF00061 - EPA 5030B											
LCS Dup (BF00061-BSD1)								Prepared & Analyzed: 06/01/2020			
1,1,1,2-Tetrachloroethane	9.08		ug/L	10.0		90.8	82-126		2.57	30	
1,1,1-Trichloroethane	8.57		"	10.0		85.7	78-136		0.698	30	
1,1,2,2-Tetrachloroethane	8.94		"	10.0		89.4	76-129		8.05	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.45		"	10.0		84.5	54-165		0.825	30	
1,1,2-Trichloroethane	8.29		"	10.0		82.9	82-123		2.50	30	
1,1-Dichloroethane	8.86		"	10.0		88.6	82-129		0.338	30	
1,1-Dichloroethylene	8.21		"	10.0		82.1	68-138		0.856	30	
1,1-Dichloropropylene	8.64		"	10.0		86.4	83-133		1.05	30	
1,2,3-Trichlorobenzene	7.19		"	10.0		71.9	76-136	Low Bias	8.01	30	
1,2,3-Trichloropropane	8.92		"	10.0		89.2	77-128		8.38	30	
1,2,4,5-Tetramethylbenzene	9.03		"	10.0		90.3	85-140		0.882	30	
1,2,4-Trichlorobenzene	8.12		"	10.0		81.2	76-137		5.86	30	
1,2,4-Trimethylbenzene	9.94		"	10.0		99.4	82-132		0.802	30	
1,2-Dibromo-3-chloropropane	7.59		"	10.0		75.9	45-147		8.58	30	
1,2-Dibromoethane	8.61		"	10.0		86.1	83-124		0.232	30	
1,2-Dichlorobenzene	9.35		"	10.0		93.5	79-123		1.59	30	
1,2-Dichloroethane	7.95		"	10.0		79.5	73-132		0.126	30	
1,2-Dichloropropane	8.85		"	10.0		88.5	78-126		1.14	30	
1,3,5-Trimethylbenzene	9.98		"	10.0		99.8	80-131		1.59	30	
1,3-Dichlorobenzene	9.59		"	10.0		95.9	86-122		0.418	30	
1,3-Dichloropropane	8.37		"	10.0		83.7	81-125		1.19	30	
1,4-Dichlorobenzene	9.51		"	10.0		95.1	85-124		1.56	30	
2,2-Dichloropropane	9.92		"	10.0		99.2	56-150		2.49	30	
2-Butanone	6.61		"	10.0		66.1	49-152		26.9	30	
2-Chlorotoluene	9.71		"	10.0		97.1	79-130		1.84	30	
2-Hexanone	7.19		"	10.0		71.9	51-146		1.79	30	
4-Chlorotoluene	9.61		"	10.0		96.1	79-128		1.55	30	
4-Methyl-2-pentanone	7.46		"	10.0		74.6	57-145		2.12	30	
Acetone	6.79		"	10.0		67.9	14-150		0.294	30	
Benzene	9.22		"	10.0		92.2	85-126		1.09	30	
Bromobenzene	9.41		"	10.0		94.1	78-129		3.34	30	
Bromochloromethane	8.06		"	10.0		80.6	77-128		1.11	30	
Bromodichloromethane	8.78		"	10.0		87.8	79-128		2.77	30	
Bromoform	8.11		"	10.0		81.1	78-133		0.492	30	
Bromomethane	7.50		"	10.0		75.0	43-168		23.0	30	
Carbon disulfide	8.48		"	10.0		84.8	68-146		1.19	30	
Carbon tetrachloride	8.22		"	10.0		82.2	77-141		0.122	30	
Chlorobenzene	9.17		"	10.0		91.7	88-120		2.09	30	
Chloroethane	8.00		"	10.0		80.0	65-136		2.59	30	
Chloroform	8.72		"	10.0		87.2	82-128		0.115	30	
Chloromethane	3.29		"	10.0		32.9	43-155	Low Bias	1.21	30	
cis-1,2-Dichloroethylene	8.86		"	10.0		88.6	83-129		0.793	30	
cis-1,3-Dichloropropylene	8.82		"	10.0		88.2	80-131		1.24	30	
Dibromochloromethane	8.49		"	10.0		84.9	80-130		1.05	30	
Dibromomethane	8.23		"	10.0		82.3	72-134		0.122	30	
Dichlorodifluoromethane	3.04		"	10.0		30.4	44-144	Low Bias	6.98	30	
Ethyl Benzene	9.38		"	10.0		93.8	80-131		2.05	30	
Hexachlorobutadiene	8.84		"	10.0		88.4	67-146		1.71	30	
Isopropylbenzene	9.53		"	10.0		95.3	76-140		2.08	30	
Methyl tert-butyl ether (MTBE)	7.83		"	10.0		78.3	76-135		0.256	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 BF00061 - EPA 5030B											
LCS Dup (BF00061-BSD1)								Prepared & Analyzed: 06/01/2020			
Methylene chloride	8.01		ug/L	10.0		80.1	55-137		1.26	30	
Naphthalene	7.28		"	10.0		72.8	70-147		9.42	30	
n-Butylbenzene	9.68		"	10.0		96.8	79-132		1.44	30	
n-Propylbenzene	9.61		"	10.0		96.1	78-133		3.98	30	
o-Xylene	9.25		"	10.0		92.5	78-130		1.97	30	
p- & m- Xylenes	18.4		"	20.0		92.1	77-133		0.872	30	
p-Diethylbenzene	10.6		"	10.0		106	84-134		1.49	30	
p-Ethyltoluene	10.6		"	10.0		106	88-129		2.69	30	
p-Isopropyltoluene	10.0		"	10.0		100	81-136		1.19	30	
sec-Butylbenzene	10.3		"	10.0		103	79-137		1.45	30	
Styrene	9.49		"	10.0		94.9	67-132		2.24	30	
tert-Butylbenzene	8.29		"	10.0		82.9	77-138		2.15	30	
Tetrachloroethylene	8.70		"	10.0		87.0	82-131		1.48	30	
Toluene	9.11		"	10.0		91.1	80-127		0.330	30	
trans-1,2-Dichloroethylene	9.03		"	10.0		90.3	80-132		2.19	30	
trans-1,3-Dichloropropylene	8.46		"	10.0		84.6	78-131		1.41	30	
Trichloroethylene	9.00		"	10.0		90.0	82-128		0.893	30	
Trichlorofluoromethane	8.01		"	10.0		80.1	67-139		3.43	30	
Vinyl Chloride	5.80		"	10.0		58.0	58-145		4.23	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.62*		*"*	*10.0*		*86.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.97*		*"*	*10.0*		*99.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Gas Chromatography/Flame Ionization Detector - 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 BE01051 - Preparation for GC Analysis											
Blank (BE01051-BLK1)									Prepared & Analyzed: 05/26/2020		
Methane	ND	10	ug/L								
Ethane	ND	10	"								
Ethylene (Ethene)	ND	10	"								
Duplicate (BE01051-DUP1)	*Source sample: 20E0644-01 (FRW-4-200520)								Prepared & Analyzed: 05/26/2020		
Methane	ND	10	ug/L		ND					35	
Ethane	ND	10	"		ND					35	
Ethylene (Ethene)	ND	10	"		ND					35	

Metals by ICP/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 BE01067 - EPA 200.8											
Blank (BE01067-BLK1)								Prepared: 05/27/2020 Analyzed: 05/28/2020			
Iron - Dissolved	ND	10.0	ug/L								
LCS (BE01067-BS1)								Prepared: 05/27/2020 Analyzed: 05/28/2020			
Iron - Dissolved	2750		ug/L	2500		110	80-120				
Duplicate (BE01067-DUP1)	*Source sample: 20E0644-02 (MW98-01A-200520)							Prepared: 05/27/2020 Analyzed: 05/28/2020			
Iron - Dissolved	53400	10.0	ug/L		54200				1.40	20	
Matrix Spike (BE01067-MS1)	*Source sample: 20E0644-02 (MW98-01A-200520)							Prepared: 05/27/2020 Analyzed: 05/28/2020			
Iron - Dissolved	56200		ug/L	2500	54200	82.6	75-125				

Anions by Ion Chromatography - 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 BE00996 - EPA 300											
Blank (BE00996-BLK1)									Prepared & Analyzed: 05/21/2020		
Nitrate as N	ND	0.0500	mg/L								
Nitrite as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BE00996-BS1)									Prepared & Analyzed: 05/21/2020		
Nitrate as N	10.2	0.0500	mg/L	10.0		102	90-110				
Nitrite as N	10.4	0.0500	"	10.0		104	90-110				
Sulfate	10.1	1.00	"	10.0		101	85-115				

Wet Chemistry 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 BE01009 - Analysis Preparation											
Blank (BE01009-BLK1)									Prepared: 05/26/2020 Analyzed: 05/27/2020		
Total Organic Carbon (TOC)	ND	1.00	mg/L								
LCS (BE01009-BS1)									Prepared: 05/26/2020 Analyzed: 05/27/2020		
Total Organic Carbon (TOC)	98.4	1.00	mg/L	94.0		105	79.5-125.1				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20E0644-01	FRW-4-200520	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0644-02	MW98-01A-200520	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20E0644-03	TB01-200520	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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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. 20E06414

YOUR Information	Report To:	Invoice To:
Company: Ramboll	Company: Ramboll	Company: Ramboll
Address: 101 Carnegie Ctr, 200 Princeton NJ	Address: 234 W. Florida St, 5th Flr Milwaukee WI 53204	Address: 234 W Florida St, 5th Flr Milwaukee WI 53204
Phone: (201) 575-1715	Phone: 262-901-0127	Phone: 262-901-0127
Contact: Matthew Sweet	Contact: Mark Mojac	Contact: Mark Mojac
E-mail: msweet@ramboll.com	E-mail: mmojac@ramboll.com	E-mail: mmojac@ramboll.com

YOUR Project Number: 1690016505

YOUR Project Name: Kraft Sag Harbor / Rowe Ind.

YOUR PO#: 1690016505

Turn-Around Time

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.

Samples Collected by: (print your name above and sign below)
Matthew Sweet

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; NJDKQP; NJDEP SRP HazSite
Other: EQuIS 4 File

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
NYSDEC

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
FRW-4-200520	GW	5/20/20 1345	VOC, TOC, Ethane Ethene Methane, Nitrate Sulfate, Diss Fe	
~~FRW-4-MS~~			MS	
MW98-01A-200520	GW	5/20/20 1505	VOC, TOC, Ethane Ethene Methane, Nitrate Sulfate, Diss Fe	

Comments: Send Equis 4 File to EDDPrinceton@ramboll.com
Lab Filter for Diss Fe.

Preservation: (check all that apply)
HCl X MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter X

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
KBlocher / Ramboll	5/21/20 10:45		5/21/20 1045		5/21/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	5-21-20 1614		5-21-20 1827		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				KBlocher	5/21/20 1827

Temp. Received at Lab: 2.1 Degrees C

APPENDIX C

DATA VALIDATION REPORT

July 10, 2020

MEMORANDUM

To: **File**

From: **Mitchell Levenhagen**

Subject: **Data Validation, Sample Delivery Groups (SDG) 20E0617 and 20E0644, May 2020 Groundwater Samples Obtained from the Former Rowe Industries Superfund Site Ramboll Project No. 1690016505**

Introduction

A total of 11 groundwater samples (including 1 duplicate sample and 1 field blank sample) were collected on May 19 and 20, 2020, from the Former Rowe Industries Superfund Site in Sag Harbor, New York. The samples were delivered to York Analytical Laboratories, Inc. of Stratford, Connecticut, under chain-of-custody by private courier for analysis of all or a subset of volatile organic compounds (VOCs) in accordance with USEPA Method 8260, methane, ethane and ethene by headspace gas chromatography, dissolved iron by USEPA Method 200.8, nitrate/nitrite and sulfate by USEPA Method 300.0, and total organic carbon by USEPA Method 5310C. The groundwater samples were collected in appropriately preserved sample containers and stored in a cooler under ice to approximately 4 degrees Celsius.

The data were evaluated with respect to accuracy, precision, and completeness using criteria established in the USEPA Laboratory National Functional Guidelines for Data Review. Quality control (QC) summary forms and data reports were reviewed. Data qualifiers were added when the QC data indicated a bias. The data evaluation and qualifications are noted below.

Standard data qualifiers were used as a means of classifying the data as to their conformance with QC requirements. Data qualifiers used for this sample delivery group are as follows:

- J — Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a tentatively identified compound (TIC), the result is an estimated concentration.
- HT-01 — This result was reported from an analysis conducted outside of the USEPA recommended holding time.
- CCV-E — The value reported is ESTIMATED. The value is estimated due to its behaviour during continuing calibration verification (>20% difference for average Rf or >20% drift for quadratic fit).

The analyte nitrate/nitrite was flagged with the HT-01 qualifier in a total of three samples (MW-98-05AR-200519, FB01-200519 (field blank), DUP01-200519 (duplicate sample). These samples were analyzed slightly beyond the USEPA Method 300.0 hold time of 48 hours.

A total of four groundwater samples (MW-98-04-200519, MW-98-05AR-200519, FFRW-2-200520, and FRW-3-2005200) had one or two analytes flagged with the CCV-E qualifier. Specifically, 2-butanone was flagged in each of the four samples and vinyl chloride was flagged in samples MW-98-05AR-200519 and FRW-3-2005200.

For quality assurance/quality control purposes, two trip blanks (TB01-200519 and TB01-200520) were analyzed for VOCs and one duplicate and one field blank sample were analyzed for VOCs, methane,

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ethane and ethene, dissolved iron, nitrate/nitrite, sulfate, and total organic carbon. The field duplicate sample was collected by running distilled water through a decontaminated sampling pump utilizing disposable tubing.

The trip blank associated with Sample Delivery Group No. 20E0644 contained 2-butanone at a detected concentration of 0.51 micrograms per liter (µg/L) and acetone at 7.7 µg/L. Acetone and 2-butanone are considered common laboratory contaminants (USEPA 2016). No other analytes were detected in the trip blank samples.

The field blank sample (FB01-200519) contained 2-butanone at a detected concentration of 0.93 µg/L, acetone at 12 µg/L, and dissolved iron at a concentration of 21.7 µg/L. As noted above, acetone and 2-butanone are considered common laboratory contaminants.

Field precision is measured by the collection of duplicate samples. The objectives for field precision are relative percent differences (RPDs) of 30% for aqueous samples, provided that both the initial and field duplicate results are greater than five times the respective RLs. When one of both of the field duplicate sample results are below five times the RL, satisfactory precision is achieved if the sample results agree within 2.5 times the RL for aqueous samples. The analytical results from the duplicate sample (DUP01-200519) and its co-located sample (MW-98-05AR-200519) met the applicable RPD objective.

In general, the laboratory assigned a QL-02 qualifier for the quality control data with analytes reporting a low bias flag and a QR-02 qualifier for the analyte with a "Non-dir." flag. Data qualifiers used for the sample delivery group quality control data are as follows:

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.

Several parameters from Sample Delivery Group No. 20E0617 were flagged as having a low bias in Laboratory Control Samples (LCS) and LCS duplicate samples. The LCS duplicate sample LCS Dup (BE00227-BSD1) had a low bias flag for tert-butylbenzene. LCS sample BE00716-BS1 had a low bias flag for 1,2,4,5-tetramethylbenzene, chlorobenzene and tert-butylbenzene, and LCS duplicate sample LCS Dup (BE00716-BSD1) had a low bias for 1,2,4,5-tetramethylbenzene, chlorobenzene, tert-butylbenzene, and tetrachloroethylene. 2-butanone from LCS duplicate sample LCS Dup (BE00716-BSD1) was flagged "Non-dir." for having a Relative Percent Difference (RPD) outside of the laboratory or regulatory control limit. Several parameters from Sample Delivery Group No. 20E0644 were also flagged as having a low bias. Sample LCS (BF00061-BS1) had a low bias for analytes chloromethane, dichlorodifluoromethane, and vinyl chloride and sample LCS Dup (BR00061-BSD1) had a low bias for analytes 1,2,3-trichlorobenzene, chloromethane, and dichlorodifluoromethane.

Organic Analyses of Aqueous Samples

The organic analyses were reviewed for the following QC requirements:

- Completeness (verification that all collected samples were analyzed for the requested analytical parameters);
- Holding times prior to extraction and analysis;
- Blank contamination;

- Duplicate precision and accuracy;
- Surrogate recovery precision and accuracy;
- Laboratory control sample precision and accuracy; and
- Overall assessment of data.

The QC parameters for the VOC analyses were within the required QC limits except those otherwise noted above, which were accepted based on percent recoveries and completeness of other data.

Conclusions

The results of the aqueous analyses are acceptable as reported and are considered useable within the limits depicted by the identified data qualifiers.

Reference

United States Environmental Protection Agency. 2016. *Data validation standard operating procedures for contact laboratory program organic data using gas chromatograph/mass spectrometer and gas chromatograph/electron capture detector (Rev. 0.0)*: Athens, Georgia, USEPA Region IV, 17 p.

APPENDIX D

MOLAR FRACTION CHARTS

Figure D-1: Molar Fraction of VOCs at Well FRW-1
Rowe Industries Site - Sag Harbor, New York

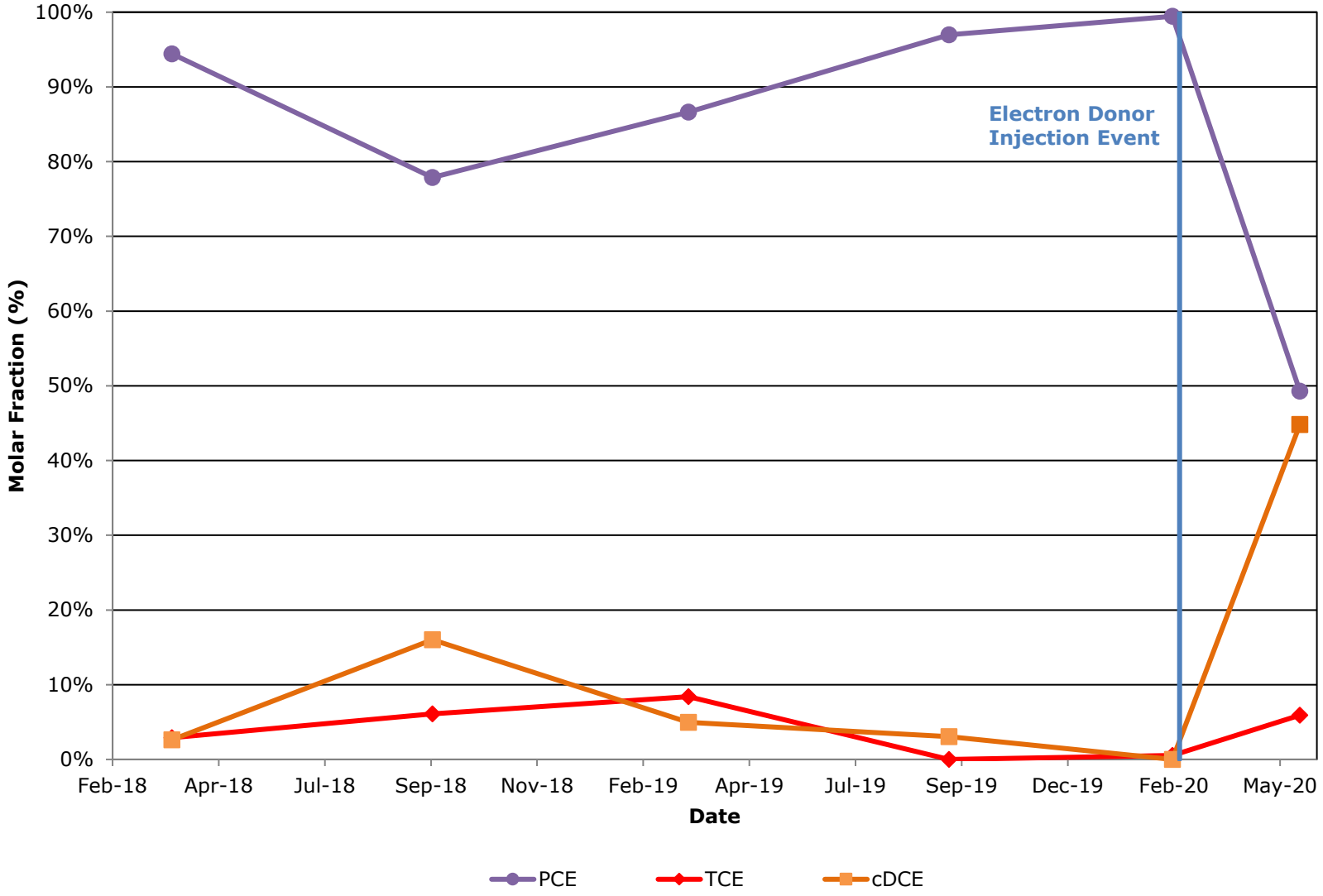

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Figure D-2: Molar Fraction of VOCs at Well FRW-2
Rowe Industries Site - Sag Harbor, New York

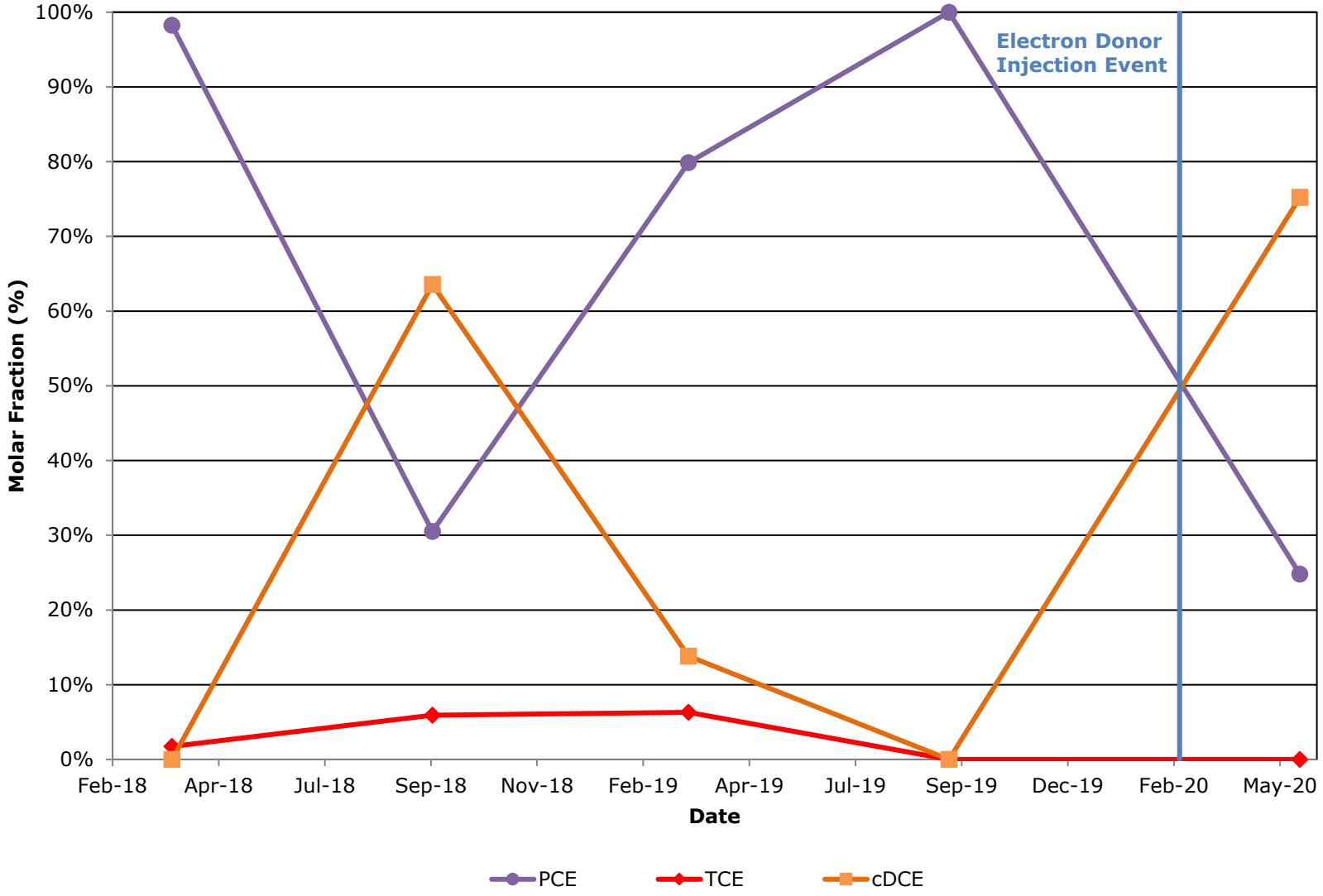

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Figure D-3: Molar Fraction of VOCs at Well FRW-3
Rowe Industries Site - Sag Harbor, New York

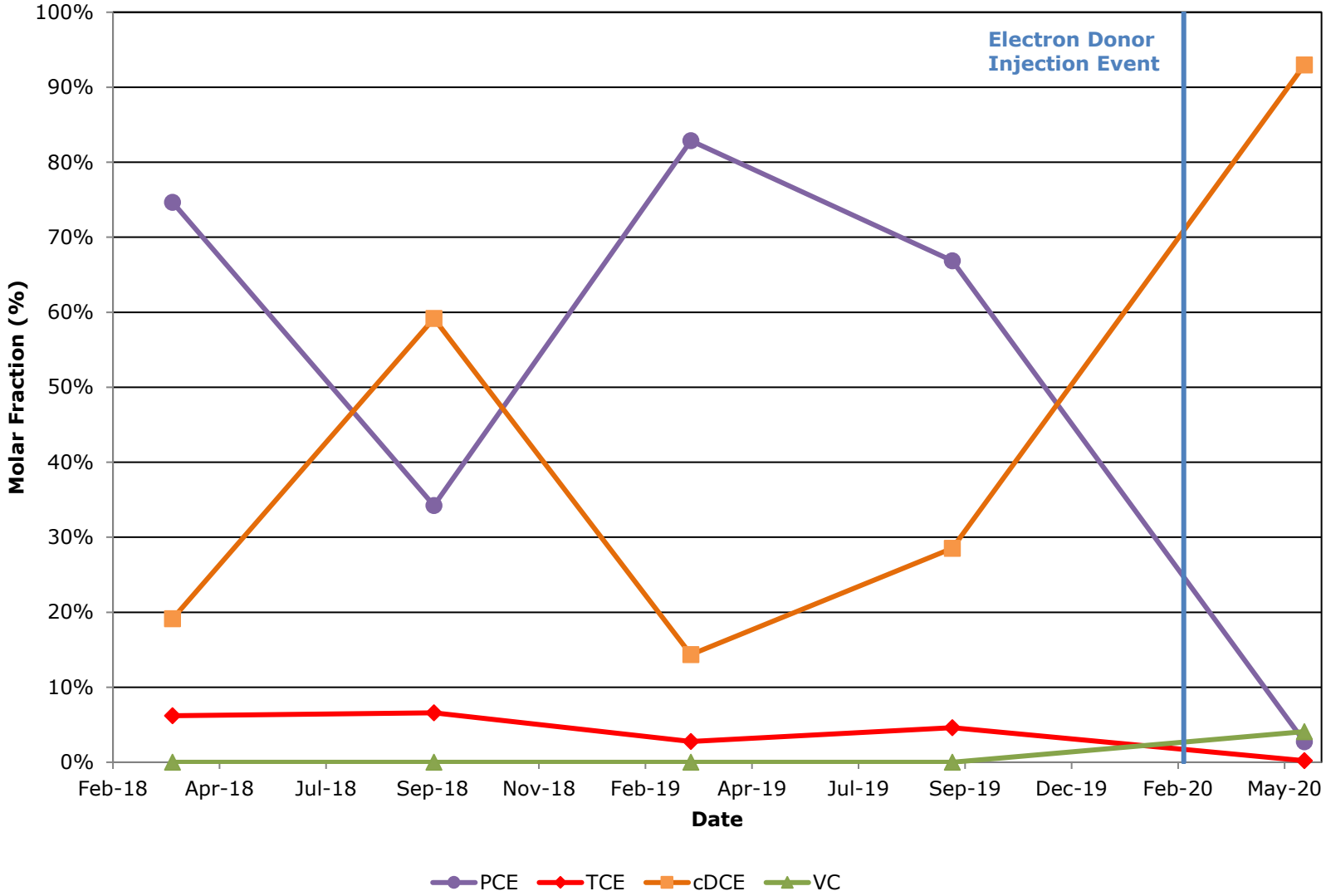

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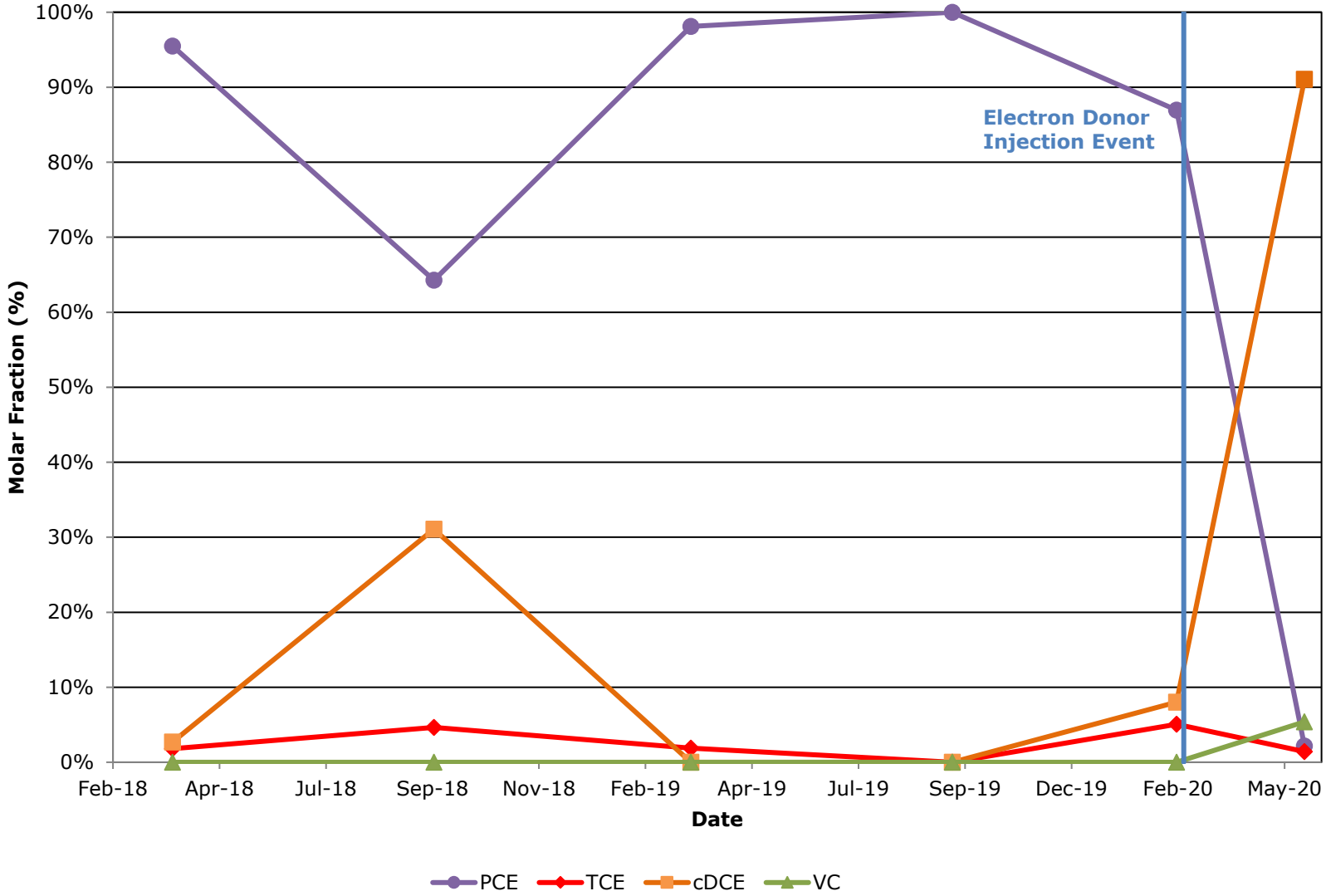
Figure D-4: Molar Fraction of VOCs at Well MW-98-05AR
Rowe Industries Site - Sag Harbor, New York



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